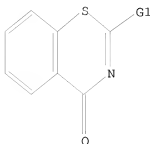


=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 09:10:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 498 TO ITERATE

100.0% PROCESSED 498 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8622 TO 11298
PROJECTED ANSWERS: 56 TO 504

L2 14 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 09:11:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 10083 TO ITERATE

100.0% PROCESSED 10083 ITERATIONS 219 ANSWERS
SEARCH TIME: 00.00.01

L3 219 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	178.36	178.57

FILE 'CAPLUS' ENTERED AT 09:11:08 ON 13 FEB 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available

for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 13 Feb 2008 VOL 148 ISS 7

FILE LAST UPDATED: 12 Feb 2008 (20080212/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l3

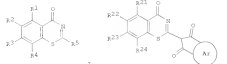
L4 45 L3

=> d ibib abs hitstr tot

14 ANSWER 1 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 ACCESSION NUMBER: 2007:3207 CAPLUS
 DOCUMENT NUMBER: 144:31801
 TITLE: Optimal recording medium and benzo-[e]-[1,3]-thiadiazin-4-one derivative
 INVENTOR(S): Ishida, Tetsuaki Miyamoto, Masataka, Shiozaki, Hiroyuki Ogino, Akira
 PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, Mpp. C0501, 2006003
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNTRY: 3
 PATENT INFORMATION: 1

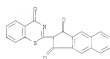
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007001094	A	20070111	JP 2005-182695	20050622
P2007777 APPL. INFO.			JP 2005-182695	20050622

OTHER SOURCE(S):
 US MARPAT 146:133901

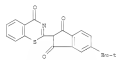


AR The material contains 21 benzo-[e]-[1,3]-thiadiazin-4-one derivative in the recording layer. The compound 1 and 11 (one of the tautomeric structures) (R1-5, R21-5 = H, halo, nitro, cyano, OH, carbonyl, alkyl, aralkyl, aryl, metalloxy, etc.; Ar = aromatic ring) are claimed.
 The material is recorded and read by 700-900 nm laser beam.
 II 6743:04-9 918647:10-9 918647:40-2
 918647:42-4 918647:45-7 918647:47-9
 918647:49-1 918647:51-8 918647:53-7
 R1: T2M (Technical or engineered material use); USES (Uses)
 (Optical recording material containing benzothiazinone compound)
 III 6743:04-9 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-(phenylethynyl)- (CA INDEX NAME)

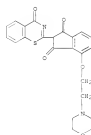
14 ANSWER 1 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



III 918647:45-7 CAPLUS
 CN 18-Indene-1,3(2H)-dione, 5-([1,2-dimethylethyl]-2-(4-oxo-4H-1,3-benzothiazin-2-yl))- (CA INDEX NAME)



III 918647:47-9 CAPLUS
 CN 18-Indene-1,3(2H)-dione, 6-(2-(4-morpholinyl)ethoxy)-2-(4-oxo-4H-1,3-benzothiazin-2-yl))- (CA INDEX NAME)



III 918647:49-1 CAPLUS
 CN 18-Indene-3-carboxamide, 10-N-(4-ethoxy-2,3-dihydro-1,2-dioxo-2-(4-oxo-4H-1,3-benzothiazin-2-yl))- (CA INDEX NAME)

14 ANSWER 1 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



III 918647:10-8 CAPLUS
 CN 18-Indene-1,3(2H)-dione, 2-(4-oxo-4H-1,3-benzothiazin-2-yl))- (CA INDEX NAME)

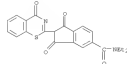


III 918647:40-2 CAPLUS
 CN 18-Phenylene-1,3(2H)-dione, 2-(4-oxo-4H-1,3-benzothiazin-2-yl))- (CA INDEX NAME)

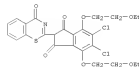


III 918647:42-4 CAPLUS
 CN 18-Benz[1]indene-1,3(2H)-dione, 2-(4-oxo-4H-1,3-benzothiazin-2-yl))- (CA INDEX NAME)

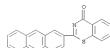
14 ANSWER 1 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



III 918647:51-5 CAPLUS
 CN 18-Indene-1,3(2H)-dione, 5,4-dichloro-4,7-bis(2-ethoxyethoxy)-2-(4-oxo-4H-1,3-benzothiazin-2-yl))- (CA INDEX NAME)



III 918647:53-7 CAPLUS
 CN 4H-1,3-benzothiazin-4-one, 2-(2-anthracenyl))- (CA INDEX NAME)



14 ANSWER 2 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)

ACCESSION NUMBER: 2005:102008 CAPLUS

DOCUMENT NUMBER: 14139053

TITLE: Polyfluorobenzoyl chlorides and isothiocyanates in reactions with C8-reactive benzimidazoles

INVENTOR(S): Masuda, K. V.; Lipanova, O. M.; Loeve, A. A.; Charskaya, V. N.

COMPANY SOURCE: Ural State Technical University, Yekaterinburg, 620020, Russia

SOURCE: Russian Chemical Bulletin (2005), 54(7), 733-737

CODEN: RCHWRY; ISSN: 1066-5205

FORLINDEX: Springer Science+Business Media, Inc.

SCHEME TYPE: English

LANGUAGE: English

ORCA SOURCE(S): CHIMCAT 34429053

AB Reactions of 2-(benzoylmethyl)benzimidazole with tetra- and pentafluorobenzoyl chlorides afford fluorine-containing 4-benzoyl-7H-benzimidazo[1,2-a]quinolones. 2-(P-anisomethyl)- or 2-(benzoylmethyl)benzimidazole reacts with tetra(penta)fluorobenzoyl isothiocyanates to give fluorine-containing 1,7-benzothiazinone, which differently behave in reactions with cycloalkylamines.

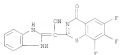
IT 883241-79-QP 883241-80-3P 883241-81-4P 883241-82-3P

RU KCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

Preparation of fluorinated benzimidazoquinolones and benzothiazinones by cyclodehydration of C8-reactive benzimidazoles with fluorobenzoyl chlorides or isothiocyanates)

RU 883241-79-Q CAPLUS

CN 48-1,3-Benzothiazine-2-acetonitrile, ω -(1,3-dihydro-2H-benzimidazol-2-ylidene)-6,7,8-trifluoro-4-oxo- (CA INDEX NAME)



RU 883241-80-3 CAPLUS

CN 48-1,3-Benzothiazine-2-acetonitrile, ω -(1,3-dihydro-2H-benzimidazol-2-ylidene)-6,7,8-trifluoro-4-oxo- (CA INDEX NAME)

14 ANSWER 2 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)

ACCESSION NUMBER: 2004:145812 CAPLUS

DOCUMENT NUMBER: 14132838

TITLE: Preparation of 1,3-benzothiazinones as macrophage migration inhibitory factors

INVENTOR(S): Kojima, Masahiko; Nakayama, Yutaka; Kimura, Atsuhide

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 55 pp.

CODEN: JPKOAP

LANGUAGE: Japanese

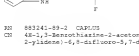
FAMILY ACC. NUM. COUNTRY: 1

PATENT INFORMATION: 1



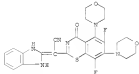
RU 883241-81-0 CAPLUS

CN 48-1,3-Benzothiazine-2-acetonitrile, ω -(1,3-dihydro-2H-benzimidazol-2-ylidene)-6,8-difluoro-7-(4-morpholinyl)-4-oxo- (CA INDEX NAME)



RU 883241-82-3 CAPLUS

CN 48-1,3-Benzothiazine-2-acetonitrile, ω -(1,3-dihydro-2H-benzimidazol-2-ylidene)-6,8-difluoro-7-di-(4-morpholinyl)-4-oxo- (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RS

FORMAT

14 ANSWER 2 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)

ACCESSION NUMBER: 2004:145812 CAPLUS

DOCUMENT NUMBER: 14132838

TITLE: Preparation of 1,3-benzothiazinones as macrophage migration inhibitory factors

INVENTOR(S): Kojima, Masahiko; Nakayama, Yutaka; Kimura, Atsuhide

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 55 pp.

CODEN: JPKOAP

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNTRY: 1

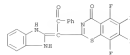
PATENT INFORMATION: 1

RU 883241-83-4 CAPLUS

CN 48-1,3-Benzothiazine-4-one, 2-[(1,3-dihydro-2H-benzimidazol-2-ylidene)-2-oxo-2-phenylethyl]-6,7,8-trifluoro- (CA INDEX NAME)

RU 883241-82-5 CAPLUS

CN 48-1,3-Benzothiazine-4-one, 2-[(1,3-dihydro-2H-benzimidazol-2-ylidene)-2-oxo-2-phenylethyl]-5,6,7,8-tetrafluoro- (CA INDEX NAME)



IT 883241-81-8P 883241-87-QP 883241-89-2P

RU SPN (Synthetic preparation); PREP (Preparation)

Preparation of fluorinated benzimidazoquinolones and benzothiazinones by cyclodehydration of C8-reactive benzimidazoles with fluorobenzoyl chlorides or isothiocyanates)

RU 883241-83-5 CAPLUS

CN 48-1,3-Benzothiazine-4-one, 2-[(1,3-dihydro-2H-benzimidazol-2-ylidene)-2-oxo-2-phenylethyl]-6,8-difluoro-5,7-di-(4-morpholinyl)- (CA INDEX NAME)

14 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)

ACCESSION NUMBER: 2004:145812 CAPLUS

DOCUMENT NUMBER: 14132838

TITLE: Preparation of 1,3-benzothiazinones as macrophage migration inhibitory factors

INVENTOR(S): Kojima, Masahiko; Nakayama, Yutaka; Kimura, Atsuhide

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 55 pp.

CODEN: JPKOAP

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNTRY: 1

PATENT INFORMATION: 1

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2004196792 A 20040715 JP 2003-046172 20031204

WO 2004060982 A1 20040722 WO 2003-091553 20031204

W, AE, AG, AL, AM, AT, AU, BA, BE, BG, BR, BY, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LA, LU, LV, LT, LV, MD, MG, MK, MN, MU, MY, NL, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, SV, TH, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ZM, ZY, RU, BY, MD, RU, TZ, TH, AT, BE, BG, BR, BY, CA, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IL, LV, MD, MG, MK, MY, NL, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, SV, TH, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ZM, ZY

TO

AO 2003289176 A1 20040728 JP 2003-289176 20031204

EP 1368687 A1 20050931 EP 2003-777247 20031204

RU 2004052373 A1 20040309 RU 2003-557508 20030901

PRIORITY APPL. INFO.: JP 2002-353546 A 20021205

WO 2003-091553 W 20031204

OTHER SOURCE(S): MARPAT 14132838

GI



AB Title compds. 1 [R2 = halo, OR, N(R2), haloalkyl, aryl, (un)substituted amino R2 = (un)substituted benzyl, (un)substituted cycloalkyl, (un)substituted heterocyclic ring residue, substituted Ph; n = 0-4] or their salts, which have low toxicity [see data], are prepared The

L4 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 compounds or their prodrugs are useful for prophylactic and therapeutic treatment of circulatory disorders (e.g., heart failure), bone and joint diseases, infectious diseases, inflammation, and kidney diseases. Thus, 2-[(cyclopropylcarbonyl)thio]benzoic acid was treated with ClCO₂Et, NaH₃, and BuLi, and cyclized to give 1 (R₁ = H, R₂ = cyclopropyl), which inhibited rat myocardial apoptosis with IC₅₀ value of 0.072 μM.

IT 547636-69-1P 722507-32-4P 722507-30-5P
 722507-34-0P 722507-36-2P 722507-28-2P
 722507-40-2P 722507-42-0P 722507-44-0P
 722507-46-2P 722507-48-0P 722507-50-0P
 722507-52-0P 722507-54-2P 722507-56-4P
 722507-58-2P 722507-60-0P 722507-62-2P
 R₁ Fmoc (fluorenylmethyl) (4-yl); SPP (Synthetic preparation) TSP (Tetraethylammonium) RSC (Biotinylated) (4-yl); TSP (Tetraethylammonium) (4-yl)
 (Preparation of benzothiazines as macrophage migration inhibitory factor

binders and apoptosis inhibitors for treatment of disease)
 CN 547636-69-1 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(2-methoxyphenyl)- (CA INDEX NAME)



IN 722507-22-4 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-methoxyphenyl- (CA INDEX NAME)



IN 722507-32-6 CAPLUS
 CN Acetic acid, [3-(4-oxo-6H-1,3-benzothiazin-2-yl)phenyl]-, 1,1-dimethylethyl ester (TSP) (CA INDEX NAME)

L4 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



IN 722507-42-8 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(3-bromophenyl)- (CA INDEX NAME)



IN 722507-44-0 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(4-bromophenyl)- (CA INDEX NAME)



IN 722507-46-2 CAPLUS
 CN Acetanilide, N-[3-(4-oxo-6H-1,3-benzothiazin-2-yl)phenyl]- (CA INDEX NAME)



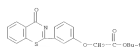
IN 722507-48-4 CAPLUS
 CN Benzonitrile, 4-(4-oxo-6H-1,3-benzothiazin-2-yl)- (CA INDEX NAME)



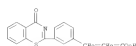
IN 722507-50-8 CAPLUS

Have

L4 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



IN 722507-34-8 CAPLUS
 CN Benzonitrile, 4-(4-oxo-6H-1,3-benzothiazin-2-yl)- (CA INDEX NAME)



IN 722507-36-0 CAPLUS
 CN Benzonitrile, 2-(4-oxo-6H-1,3-benzothiazin-2-yl)- (CA INDEX NAME)

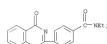


IN 722507-38-2 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(4-(trifluoromethyl)phenyl)- (CA INDEX NAME)



IN 722507-40-6 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(4-acetylphenyl)- (CA INDEX NAME)

L4 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 Benzanide, N,N-diethyl-4-(4-oxo-6H-1,3-benzothiazin-2-yl)- (CA INDEX NAME)



IN 722507-52-0 CAPLUS
 CN Acetanilide, N-[4-(4-oxo-6H-1,3-benzothiazin-2-yl)phenyl]- (CA INDEX NAME)



IN 722507-54-2 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-[1,1'-biphenyl]-4-yl- (CA INDEX NAME)



IN 722507-56-4 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)



IN 722507-58-4 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



14 ANSWER 7 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 ACCESSION NUMBER: 2000:822981 CAPLUS
 DOCUMENT NUMBER: 133367807
 TITLE: Silver halide color photographic material containing color developer and coupler and image formation
 INVENTOR(S): Uchida, Osamu; Ishiwata, Yasuhiko; Katsumata, Taiji
 PATENT ASSIGNER(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 46 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 200013732	A	20001124	JP 1999-127000	19990507
PRIORITY APPL. INFO.			JP 1999-127000	19990507
OTHER SOURCE(S):			MAJPAT 133:367807	
GI				



AB The material comprises a support having thereon 21 hydrophilic colloid layer containing 21 color developer 1 (C = C₂ = carbamoyl, acyl, alkoxy-carbonyl, aryloxy-carbonyl; C = atoms required to form an unsat. ring with C₂) and 21 coupler 21 (C₂ = C₂ = CH, carbamoyl, alkoxy-carbonyl; LG = releasing group by coupling-reaction with developer oxidation product; M = atoms required to form 6-membered aromatic heterocyclic ring with C₂). Images are formed by (1) heat-developing the material; (2) developing it in the presence of alkali generated by slightly soluble metal salt and its complexing agent; or (3) developing it with an alkaline developer. The material shows improved color development, providing images with improved light, heat, and humidity stability.

IT 207446-50-0
 RI: DEV (Device component use); USES (Uses)
 Iphotog. Film containing developer and coupler

14 ANSWER 8 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 ACCESSION NUMBER: 2000:822980 CAPLUS
 DOCUMENT NUMBER: 133367806
 TITLE: Silver halide color photographic material containing specific coupler and image formation using same
 INVENTOR(S): Uchida, Osamu; Ishiwata, Yasuhiko; Katsumata, Taiji
 PATENT ASSIGNER(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 200013732	A	20001124	JP 1999-127000	19990507
PRIORITY APPL. INFO.			JP 1999-127000	19990507
OTHER SOURCE(S):			MAJPAT 133:367806	
GI				

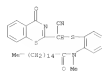


AB The title photog. material contains 21 coupler of the formula 1 (C = C atom; R₂ = CH, carbamoyl, alkoxy-carbonyl; M = atoms required to form an aromatic heterocycle along with C₂; LG = arylthio) in 21 of the hydrophilic colloid layers formed on a support. The material is heat-developed or developed under such a condition that alkali is generated by a slightly soluble metal salt and its complex-forming agent or by developing an alkaline processing solution to form images. The complex shows high coloring properties and stability and provides high quality color images with high sharpness and storage stability.

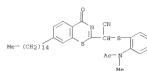
IT 207446-50-0
 RI: DEV (Device component use); USES (Uses)
 Iphotog. coupler having arylthio group

RI: DEV (Device component use); USES (Uses)
 Iphotog. coupler having arylthio group

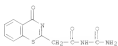
14 ANSWER 7 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 RI: DEV (Device component use); USES (Uses)
 Iphotog. coupler having arylthio group



14 ANSWER 8 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



14 ANSWER 9 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STM
 ACCESSION NUMBER: 2000:270289 CAPLUS
 DOCUMENT NUMBER: 1315923
 TITLE: Activated nitriles in heterocyclic synthesis: Facile synthesis of heteroarylthymine analogs and their nucleosides
 AUTHOR(S): Allan, Tehia A.; Chabaka, Laila M.; Nawar, Galal A. M.
 CORPORATE SOURCE: Peptide Laboratory, National Research Centre, Cairo,
 SOURCE: Egypt
 SUBJECT: Heterocyclic Chemistry (2000), 11(7), 209-212
 CORDS: E07039; ISSN: 1042-1183
 PUBLISHER: John Wiley & Sons, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 1315923
 AB 5-Benzoxarylthymine analogs were synthesized via bimolecular attack with isocyanide thiols on the cyano group of cyanoacetylenes to form the heteroarylnucleosides, followed by their cyclization with formamide. Also, their nucleosides with 2',3',4',6'-tetra-O-acetyl- β -D-glucopyranose were prepared.
 IT 271754-11-7F
 ELI KCI (Reagent); SYN (Synthetic preparation); PREP (Preparation); NACT (Reactant or reagent)
 (synthesis of heteroarylthymine analogs and their nucleosides using activated nitriles)
 RN 271754-12-7 CAPLUS
 CH 48-1,3-Benzothiazine-2-acetamide, N-(nucleosyl)-4-oxo- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

14 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STM (Continued)



14 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STM
 ACCESSION NUMBER: 1993:522687 CAPLUS
 DOCUMENT NUMBER: 119122687
 TITLE: Threshold composition of iron-cobalt alloys during their corrosion in inhibited sulfuric acid media
 AUTHOR(S): Grigor'ev, V. P.; Gerasimova, I. M.; Kravchenko, V. M.
 CORPORATE SOURCE: Kostov, Gos. Univ., Kostov, Russia
 SOURCE: Zhukhita Metallov (1992), 25(5), 833-8
 CORDS: E0803; ISSN: 0044-8576
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Weight loss and electrochem. studies were conducted on Fe-(0-49.5) atomeq Co alloys in 0.5 M H2SO4 solns. containing 0.05-0.5 atm 2-phenyl-4-oxo-1,3-benzothiazine perchlorate (I). Alloys containing less than 10-23 atomeq Co behave more like Fe and those above the threshold composition have corrosion parameters approaching Co. The I adsorption on the alloys is described by the Freundlich isotherm.
 IT 97189-42-9
 ELI POC (Process)
 (corrosion inhibition by, of iron-cobalt alloys in sulfuric acid solns.)
 RN 97189-42-9 CAPLUS
 CH 48-1,3-Benzothiazine-4-one, 2-phenyl-, perchlorate (PCI) (CA INDEX NAME)



CH 1
 CHN 7601-90-3
 CHF C1 B 04

14 ANSWER 11 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STM
 ACCESSION NUMBER: 1993:616999 CAPLUS
 DOCUMENT NUMBER: 119169999
 TITLE: Threshold composition of iron-cobalt alloy as a function of solution temperature
 AUTHOR(S): Grigor'ev, V. P.; Gerasimova, I. M.; Kravchenko, V. M.
 CORPORATE SOURCE: Kostov, Gos. Univ., Kostov, Russia
 SOURCE: Elektrokhimika (1993), 29(12), 271-3
 CORDS: E0803; ISSN: 0424-8576
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB The influence of the temperature on the threshold composition of an Fe-Co alloy in inhibited H2SO4 solns. was studied. Potentiostatic and photopotentiometric methods were used to study the anodic dissolution of cast Fe-Co alloys (CA 1.7-49.7 mol.% in 0.5M H2SO4 containing 1 + 10-4M 2-phenyl-4-oxo-1,3-benzothiazine perchlorate at temps. of 25-40°C in the active range of potentials E (-0.25 to 0.05 V). The reference electrode was saturated KCl chloride.
 IT 97189-42-9
 ELI PRE (Properties)
 (anodic dissoln. of cobalt-iron alloys in sulfuric acid containing)
 RN 97189-42-9 CAPLUS
 CH 48-1,3-Benzothiazine-4-one, 2-phenyl-, perchlorate (PCI) (CA INDEX NAME)



CH 1
 CHN 7601-90-3
 CHF C1 B 04

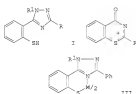


L4 ANNEK 12 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 117120467
 DOCUMENT NUMBER: Threshold concentration of binary iron-cobalt alloys
 TITLE: during their anodic dissolution in the presence of surfactants
 AUTHOR(S): Grigor'ev, V. P.; Kravchenko, V. M.; Gershonova, I. M.; Alameddini, R. G.
 CORPORATE SOURCE: Rostov. Gos. Univ., Rostov, Russia
 SOURCE: Zh. Fiz. Khim. (1992), 28 (7), 18-9, 24-7, 32-7, 40-7, and 70-8 weight % Co as solid solns. For comparison, samples of
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB: In the presence of surfactants at a predetd. alloy composition, it is possible to transfer the control of its dissoln. from 1 component to the other, using Fe-Co alloys as an example. Thus, the anodic dissoln. characteristics were studied of cast Fe-Co alloy in pure and inhibited solns. of H2SO4. The Fe-Co alloys contained 1.5, 17.9, 18-9, 24-7, 32-7, 40-7, and 70-8 weight % Co as solid solns. For comparison, samples of
 Arno: Fe and Co of grade "K-0" were tested in 0.5M H2SO4 at E (in the active region) of -0.2 to +0.55 V vs. a normal H electrode. The surfactant additive which was used was 2-phenyl-4-oxo-1,3-benzothiazinium perchlorate. The introduction into the solution of the surfactant, changing (in different ways) the angular coeffs. of the anodic curves log j vs. E for Co and Fe, lead to the appearance of a threshold composition of the Fe-Co alloy, at which control of the dissoln. kinetics of the alloy passes from 1 component to the other.
 IT 57189-42-9, 2-Phenyl-4-oxo-1,3-benzothiazinium perchlorate
 RI: 57189-42-9 CAPLUS
 CH 48-1,3-Benzothiazin-4-one, 2-phenyl-, perchlorate (PCI) (CA INDEX NAME)
 CH 1
 CHN 7601-90-3
 CNF C1 H 0 4



CH 2

L4 ANNEK 13 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 116121422 CAPLUS
 DOCUMENT NUMBER: 116121422
 TITLE: Regeneration of 4-oxo-1,3-benzothiazinium salts.
 AUTHOR(S): Ryabov, Yu. I.; Korshakova, O. B.; Gerasimov, A. D.; Ryabov, A. P.; Terent'ev, P. B.
 CORPORATE SOURCE: Nuchon-on-Dom, 344030, USSR.
 SOURCE: Khimya Deterotailicheskiikh Soedinenii (1991), (9), 1220-6
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 116121422
 GI:



AB 3-(o-Mercaptophenyl)-1,2,4-triazoles I (R = Ph, R1 = H, Ph, PhCH2; R = PhCH2, R1 = CH2CH2CH2, R1 = Ph) were prepared (50-80% yields) by reacylation of 4-oxo-1,3-benzothiazinium perchlorates II with R1NH2 in refluxing AcOH. Treating I in a min. volume of MeOH with N(CH3)2 (M = Co, Ni, Sn) gave 11-14% compounds III (R1 = Ph, M = Co, Ni, Zn, R1 = PhCH2, M = Co, Ni).
 IT 57189-42-9
 RI: RCT (Reactant); RACT (Reactant or reagent)
 CH 57189-42-9 CAPLUS
 CH 48-1,3-Benzothiazin-4-one, 2-phenyl-, perchlorate (PCI) (CA INDEX NAME)
 CH 1
 CHN 7601-90-3
 CNF C1 H 0 4

L4 ANNEK 12 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CHN 7474-08-0
 CNF C14 H9 N O S



L4 ANNEK 13 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CH 2

CHN 7474-08-0
CNF C14 H9 N O S

IT 57189-44-1 140455-64-7
 RI: RCT (Reactant); RACT (Reactant or reagent)
 CH 57189-44-1 CAPLUS
 CH 48-1,3-Benzothiazin-4-one, 2-(phenylmethyl)-, perchlorate (PCI) (CA INDEX NAME)
 CH 1
 CHN 67433-04-9
 CNF C15 H11 N O S



CH 2

CHN 7601-90-3
CNF C1 H 0 4

L4 ANSWER 13 OF 45 CAPLOS COPYRIGHT 2008 MCS on STN (Continued)

P21 140455-64-7 CAPLOS
 C21 4R-1,3-Benzothiazin-4-one, 2-(4-nitrophenyl)-, monoperchlorate (9CI) (CA
 INDEX NAME)

251

CSN 106274-04-B
CMF C14 BB B2 O3 A

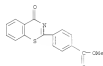


22

CEM 7601-20-3
CMF C1 H O4



L4 ANSWER 14 OF 45 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



14 ANSWER 14 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:184536 CAPLUS

ACCESSION NUMBER: 1992:184536 CAPLUS
DOCUMENT NUMBER: 116:184536
TITLE: Silver halide photographic material with good storage stability
INVENTOR(S): Ishiguro, Seiji; Ebishiko, Tadayo; Meguro, Manji
PATENT ASSIGNMENT: Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
COUNTRY: JAPAN
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03229241	A	19911011	JP 1990-24227	19900902
PRIORITY ADMIN. INFO.			JP 1990-24227	19900902

43



AB The title material contains benzothiazinone I [R1 = (substituted) alkyl, aryl; R2-5 = H, halo, OH, (substituted) alkyl, alkoxy, amino, acylamide, sulfonamide, carbamoyl, sulfonyl, carboxyl, sulfonyl, sulfonyl, carboxylate, sulfonate; R2 and R3, R3 and R4, and R4 and R5 may form 5- or 6-membered ring.] in the emulsion or other hydrophilic colloid layers.

IT 7474-08-0 140429-89-6
 RL: TEM (Technical or engineered material use); USES (Uses)
 (photon, material containing, for storage stability)

IN 7474-08-0 CAPLUS
CN 4H-1,3-Benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)



EN 140429-89-6 CAPLUS
CN Benzoic acid, 4-(4-oxo-4H-1,3-benzothiazin-2-yl)-, methyl ester (CA
INDEX

L4 ANSWER 15 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:93722 CAPLUS
DOCUMENT NUMBER: 116:93722
TITLE: Electroreduction of organic compounds. 19.

AUTHOR(S): dithiocarboxylic esters
Gade, Thomas; Streek, Michael; Voss, Juergen
CORPORATE SOURCE: Inst. Org. Chem., Univ. Hamburg, Hamburg, D-2000/13,
Germany
SOURCE: Chemische Berichte (1992), 125(1), 127-41
CODEN: CBERAN; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German

ORIGIN SOURCE(S): CASREACT 116: 93722

AB Cathodic reduction of aryl and benzylic dithiophosphates and related dithioesters with leaving groups at the benzene ring or a side chain yield

The sulfur heterocycles. The product depended on the nature of the starting material and the reaction conditions. In the case of *o*-alkylthioester, thiolide ion was the major product. The reaction had a strong tendency to reductive dehalogenation but the 5,8-heterocycles are also formed in minor amounts. The formation of the rearranged products is also seen in some cases. The reaction of the primary formed radical anion and subsequent C-C-coupling of the fragment and follow-up reactions

and subsequent C/C-coupling of the fragments and follow-up reactions
 137092-58-1P
 KL: PREP (Preparation)
 {preparation of, electrochem.}
 NN 137092-58-1 CAPLUS
 CN 4H-1,3-Benzoxiazine-4-one, 2-[1,1-dimethylethyl]- (CA INDEX NAME)



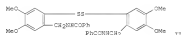
L4 ANSWER 16 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 11621013
 DOCUMENT NUMBER: 11621013
 TITLE: A new acetylation of 1,3-heterocyclic cations to
 benimidazolium and perimidinium cations
 Vodenkova, I. V.; Romanenko, A. A.;
 Ryabkikh, Ye. J.
 CORPORATE SOURCE: Inst. Org. Phys., Univ. Kostov, Kostov-on-Don,
 344121,
 USSR
 SOURCE: Bulletin des Societes Chimiques Belges (1993),
 106(2),
 173-81
 CORDIS RECORD: ISBN: 0037-9646
 JOURNAL
 LANGUAGE: French
 OTHER SOURCE(S): CASREACT 11621013
 AB Reaction of 1,3-heterocyclic cations, such as benzoimidazolium,
 benimidazolium, or diimidazolium cations, with o-phenylenediamines or
 1,8-naphthalenediamines gave benimidazolium and perimidinium cations.
 IT 97109-42-9
 RI: RCT (Reagent); RACT (Reagent or reagent)
 (reaction of, with phenylenediamines and naphthalenediamines)
 RN 97109-42-9 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-phenyl-, perchlorate (PCI) (CA INDEX NAME)
 CN 3
 CRI 7601-90-3
 CIP C1 8 04



CN 2
 CRI 7474-03-0
 CIP C14 83 H 0 5



L4 ANSWER 17 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 11215913
 DOCUMENT NUMBER: 11215913
 TITLE: Ring-transformation reactions of 1,3-benzothiazines.
 Part 5. Saturated heterocycles. Part 140. Synthesis
 of
 benzothiazines by the oxidative ring contraction of
 2-aryl-48- and 4-aryl-28-1,3-benzothiazines;
 Szabo, János Gyula; Kratoch, Peder; Lajos, Károly;
 Agócs, Bernát;
 CORPORATE SOURCE: Gyógyszerészeti Vezetési Intézet, Szent-Györgyi Albert
 Orvostud. Egyet., Szeged, 6705, Hung.
 SOURCE: Magyar Kémiai Folyóirat (1989), 95(11), 455-61
 CORDIS RECORD: ISBN: 0022-0155
 JOURNAL
 LANGUAGE: Hungarian
 OTHER SOURCE(S): CASREACT 11215913
 GI



AS Dimethoxyphenylbenzothiazine (I) was oxidized with H2O2 to yield the
 disulfide (II). H2O2 oxidation of I gave benzothiazin-4-one (III) (R =
 MeO), which was oxidized with calculated amt. of peracetic acid to
 obtain
 the corresponding 1-oxide and 1,1-dioxide. Oxidation of III (R = MeO,
 EtO,
 R) with Na2O4 involved ring contraction, yielding benzothiazinone
 1-oxides (IV). A similar ring transformation was observed in the
 oxidation of
 aryl benzothiazines (V) (R = alkyl, Ar = substituted Ph), resulting in
 the formation of arylbenzothiazinone 1-oxides (VI). The mechanism of
 these ring transformations is discussed.

L4 ANSWER 16 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L4 ANSWER 17 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 IT 11799-13-0
 RI: RCT (Reagent); RACT (Reagent or reagent)
 (intermediary of, in oxidative ring closure of arylbenzothiazine
 derivative)
 RN 11799-13-0 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 6,7-diethoxy-2-phenyl-, 1-oxide (CA INDEX NAME)



IT 7474-08-0 101734-42-3
 RI: RCT (Reagent); RACT (Reagent or reagent)
 (oxidative ring contraction of, with sodium periodate)
 RN 7474-08-0 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)



RN 101734-42-3 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 6,7-diethoxy-2-phenyl- (CA INDEX NAME)



IT 11799-12-9P
 RI: RCT (Synthetic preparation); RACT (Preparation)
 (preparation and hydroperoxide/ring-contraction sequence of)
 RN 11799-12-9 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 6,7-dimethoxy-2-phenyl-, 1-oxide (CA INDEX NAME)

14 ANSWER 19 OF 45 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



IT 56755-15-8P
 RI: SPB [Synthetic preparation]; PREP (Preparation)
 (preparation and oxidation and oxidative ring contraction of, with sodium peroxide)
 RI 56755-15-8 CAPLUS
 CN 48-1,3-Benzothiazine-4-one, 6,7-dimethoxy-2-phenyl- (CA INDEX NAME)



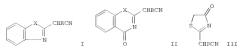
IT 11799-14-18
 RI: SPB [Synthetic preparation]; PREP (Preparation)
 (preparation of)
 RI 11799-14-1 CAPLUS
 CN 48-1,3-Benzothiazine-4-one, 6,7-dimethoxy-2-phenyl-, 1,1-dioxole (CA INDEX NAME)



14 ANSWER 19 OF 45 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



14 ANSWER 19 OF 45 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1989-135587 CAPLUS
 DOCUMENT NUMBER: 110135187
 TITLE: Activated nitriles in heterocyclic synthesis: a new approach for the synthesis of thiazines, quinoxalines, and benzimidazole derivatives
 AUTHOR(S): Ibrahim, Mada Sobhy; Shams, Mada Sak; Mohamed, Mola Hassan; Elmaghrabi, Mohamed Helmy
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Cairo, Egypt
 SOURCE: Chemistry & Industry (London, United Kingdom) (1989), (17), 543-4
 DOCUMENT TYPE: JOURNAL
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 110135187
 CI

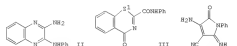


AB Cyclodehydration of 1,3OC(HN)=CHCN (R = COR¹, R²) with 1,2-DCI₂ (R¹ = NH, R² = NH, OR, SR, R¹ = SR, R² = COR¹) as BRONCOCH gave heterocycles I (X = NH, O) and II (X = S, NH) and thiazole III, resp.
 IT 11797-10-19 11797-23-22
 RI: SPB [Synthetic preparation]; PREP (Preparation)
 (preparation of)
 RI 11797-10-5 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetic acid, α-cyano-4-oxo-, ethyl ester (CA INDEX NAME)



RI 11797-23-2 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, α-benzoyl-4-oxo- (CA INDEX NAME)

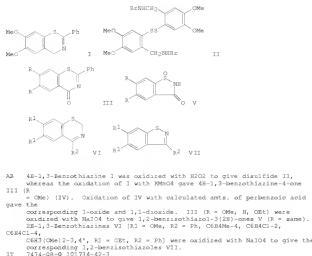
14 ANSWER 19 OF 45 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1989-38956 CAPLUS
 DOCUMENT NUMBER: 11038956
 TITLE: Nitriles in heterocyclic synthesis: 1-cyanoformamide as precursor for a variety of heterocyclic ring systems
 AUTHOR(S): Sherif, Sherif Mourad; Mohamed, Rifaat Nilsad
 CORPORATE SOURCE: Elgemma, Dalal Eddin H.; Singh, Rajendra Prasad
 SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 Heterocycles (1989), 27(7), 1579-83
 DOCUMENT TYPE: JOURNAL
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 11038956
 CI



AB BRONCOCH (I) was converted to quinoxaline derivative II and other heterocycles
 II (X = O, NH). I was treated with o-phenylenediamine in DMF
 piperidine to give II. III (X = O) was prepared from I, salicylic acid,
 and R¹ in R². Pyrazolones IV were obtained from I and CH₂(CH₂)₂.
 IT 118372-86-4P
 RI: SPB [Synthetic preparation]; PREP (Preparation)
 (preparation of)
 RI 118372-86-4 CAPLUS
 CN 48-1,3-Benzothiazine-2-carboxamide, 4-oxo-8-phenyl- (CA INDEX NAME)



L4 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 ACCESSION NUMBER: 11978142
 DOCUMENT NUMBER: 11978142
 TITLE: Ring transformations of 1,3-benzothiazines. 5. Synthesis of benzisothiazoles by the oxidative ring contraction of 2-aryl-4b- and 4-aryl-2b-1,3-benzothiazines
 AUTHOR(S): Szabo, János; Szosa, Kriszta; Fodor, Lajos; Katona, Agnieszka; Bernath, Gabor; Sohar, Bal
 CORPORATE SOURCE: Inst. Pharm. Chem., Albert Szent-Gyorgyi Med. Univ., Szeged, H-6702, Hung.
 SOURCE: Tetrahedron (1998), 44(12), 2985-92
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 11978142
 GI:



AB 4b-1,3-benzothiazine 1 was oxidized with H₂O₂ to give disulfide II, whereas the oxidation of I with KMnO₄ gave 4b-1,3-benzothiazine-4-one (III) (R = OMe). Oxidation of IV with calculated amts. of perbenzoic acid gave RMe corresponding 1-oxide and 1,1-dioxide. III (R = OMe, H, OEt) were oxidized with NaIO₄ to give 1,2-benzisothiazol-3(2H)-one V (R = same). 2b-1,3-benzothiazine VI (R₁ = OMe, R₂ = Ph, CH₂Me, CH₂Et, CH₂Me-1, CH₂Me-2, CH₂Me-3, CH₂Me-4) and 4b-1,3-benzothiazine VII (R₁ = OMe, R₂ = OEt, R₃ = Ph) were oxidized with NaIO₄ to give the corresponding 1,2-benzisothiazoles VIII.

IT 7474-08-0 1027746-42-3

L4 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 RI: RCT (Reactant); RACT (Reactant or reagent)
 (oxidative ring contraction of)
 RI 7474-08-0 CAPLUS
 CH 4b-1,3-benzothiazine-4-one, 2-phenyl- (CA INDEX NAME)



RI 101734-42-3 CAPLUS
 CH 4b-1,3-benzothiazine-4-one, 6,7-diethoxy-2-phenyl- (CA INDEX NAME)



IT 56755-15-0P 117999-12-3P
 RI: RCT (Reactant); RFW (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Preparation and oxidative ring contraction of)
 RI 56755-15-0 CAPLUS
 CH 4b-1,3-benzothiazine-4-one, 6,7-dimethoxy-2-phenyl- (CA INDEX NAME)



RI 117999-12-3 CAPLUS
 CH 4b-1,3-benzothiazine-4-one, 6,7-dimethoxy-2-phenyl-, 1-oxide (CA INDEX NAME)

L4 ANSWER 21 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



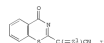
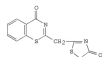
IT 117999-13-0P 117999-14-1P
 RI: RFW (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RI 117999-13-0 CAPLUS
 CH 4b-1,3-benzothiazine-4-one, 6,7-diethoxy-2-phenyl-, 3-oxide (CA INDEX NAME)



RI 117999-14-1 CAPLUS
 CH 4b-1,3-benzothiazine-4-one, 6,7-dimethoxy-2-phenyl-, 1,1-dioxide (CA INDEX NAME)



L4 ANSWER 21 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 ACCESSION NUMBER: 107115548
 DOCUMENT NUMBER: 107115548
 TITLE: Nitriles in heterocyclic synthesis: a route to synthesis of functionally substituted thiazines
 AUTHOR(S): Abed, Hosrat M.; Ibrahim, Nadia S.; Aziz, Susan I.
 CORPORATE SOURCE: Chem. Dep., Fac. Sci., Gata, Nefta
 SOURCE: Revista Portuguesa de Quimica (1985), 27(3-4), 459-62
 CODING AGENCY: IUPAC 0035-0419
 JOURNAL: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 107115548
 GI:



AB 1,3-benzothiazines 1 and 11 (R = NHMe, CHMe) were prepared. The reaction of 2-MeOC₆H₄CO₂Me with a thiazolinoneacetonitrile derivative gave 1. II (R = CHMe) was obtained from 2-MeOC₆H₄CO₂Me and PhCN(CN)2.
 IT 67433-02-7
 RI: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization-cyclization and condensation reactions of)
 RI 67433-02-7 CAPLUS
 CH 4b-1,3-benzothiazine-2-acetonitrile, 4-oxo- (CA INDEX NAME)



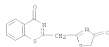
IT 107009-43-2P 109419-37-0P 109419-38-1P
 109419-39-0P 109419-40-1P 109419-41-2P
 RI: RFW (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RI 107009-43-2 CAPLUS
 CH 4b-1,3-benzothiazine-2-acetonitrile, 4-oxo-4-(phenylhydrazono)- (CA INDEX NAME)



L4 ANSWER 21 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



3H 109419-37-6 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(4,5-dihydro-4-oxo-2-thiazolyl)methyl]-
 (CA INDEX NAME)

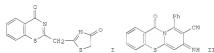


3H 109419-38-7 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(phenylmethylene)-] (CA INDEX NAME)



3H 109419-39-8 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(hydroxy(phenylamino)methylene)-4-oxo-] (CA INDEX NAME)

L4 ANSWER 22 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 ACCESSION NUMBER: 1097438953 CAPLUS
 DOCUMENT NUMBER: 10758953
 TITLE: Nitriles in heterocyclic synthesis: a route for synthesis of functionally substituted thiazinones
 AUTHOR (S): Mustafa Ahmed, Hourati Ibrahim, Nadia Sobhi
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Journal of the Chemical Society of Pakistan (1986), 8(3), 219-22
 CODEN: JCSPDH; ISSN: 0253-5106
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 10758953
 GI



AB The reaction of thioalloylic acid with a variety of activated nitriles
 is described. Several new benzo[e]-1,3-thiazinones, e.g. I and II are reported.

IT 107059-63-2P 109419-37-6P 109419-38-7P
 109419-39-8P 109419-40-1P 109419-41-2P
 BL SPW (Synthetic preparation); PRSP (Preparation)
 (Preparation of)

3H 107059-63-2 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(phenylhydrazono)-] (CA INDEX NAME)



3H 109419-37-6 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(4,5-dihydro-4-oxo-2-thiazolyl)methyl]-
 (CA INDEX NAME)

L4 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



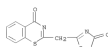
3H 109419-40-1 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(mercapto(phenylamino)methylene)-4-oxo-] (CA INDEX NAME)



3H 109419-41-2 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(aminohydroxymethylene)-4-oxo-] (CA INDEX NAME)



L4 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



3H 109419-38-7 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(phenylmethylene)-] (CA INDEX NAME)



3H 109419-39-8 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(hydroxy(phenylamino)methylene)-4-oxo-] (CA INDEX NAME)



3H 109419-40-1 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(mercapto(phenylamino)methylene)-4-oxo-] (CA INDEX NAME)



3H 109419-41-2 CAPLUS
 CN 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo-2-[(aminohydroxymethylene)-4-oxo-] (CA INDEX NAME)

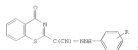
14 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



IT 67433-62-7
 RI: RCT (Reagent); RACT (Reagent or reagent)
 (reaction of)
 RI 67433-62-7 CAPLUS
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-oxo- (CA INDEX NAME)



14 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1007101555 CAPLUS
 DOCUMENT NUMBER: 100101555
 TITLE: Ionization and electroreduction of some
 benzothiazine-4-one azo dyes
 AUTHOR(S): Abed, N. M.; Hachem, R.; Fahmy, R. M.; Azzam, M.
 MODEL: Model
 COMPANIES SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Monatshefte fuer Chemie (1996), 117(5), 599-605
 CUBIN: MOCHW7 ISSN: 0026-9247
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CI



AB The pKa values of benzothiazine-4-one I (R = H, 3-Cl, 4-Cl, 3-Me, 4-Me, 3-NO2, 4-NO2) together with a model
 2-(p-aminophenyl)-48-1,3-benzothiazine-4-one were determined spectrophotometrically in aprotic media. These values were correlated to different sets. The polarographic behavior of I (R = H, 4-NO2) was studied in detail. The obtained data showed that I (R = H) is reduced via a 2-electron process to the corresponding hydrazine form, which was stabilized through H bonding.

IT 107009-62-2 107009-67-6
 RI: RCT (Reagent); RACT (Reagent or reagent)
 (ionization and polarog. reduction of)
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-oxo- (CA INDEX NAME)



RI 107009-67-6 CAPLUS

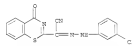
14 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-[[4-nitrophenyl]hydrazono]-4-oxo- (R1) (CA INDEX NAME)



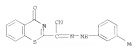
IT 67433-62-7 107009-64-3 107009-65-4
 107009-66-5 107032-75-7 107032-76-8
 RI: PACT (Reagent)
 (ionization of, in aprotic media)
 RI 67433-62-7 CAPLUS
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-oxo- (CA INDEX NAME)



RI 107009-64-3 CAPLUS
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-[[3-chlorophenyl]hydrazono]-4-oxo- (R1) (CA INDEX NAME)

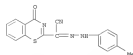


RI 107009-65-4 CAPLUS
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-[[3-methylphenyl]hydrazono]-4-oxo- (R1) (CA INDEX NAME)

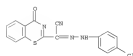


RI 107009-66-5 CAPLUS
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-[[4-nitrophenyl]hydrazono]-4-oxo- (R1) (CA INDEX NAME)

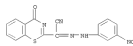
14 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-[[4-chlorophenyl]hydrazono]-4-oxo- (R1) (CA INDEX NAME)



RI 107032-75-7 CAPLUS
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-[[4-chlorophenyl]hydrazono]-4-oxo- (R1) (CA INDEX NAME)



RI 107032-76-8 CAPLUS
 CH 48-1,3-benzothiazine-2-acetonitrile, 4-[[3-nitrophenyl]hydrazono]-4-oxo- (R1) (CA INDEX NAME)



14 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 19861544902 CAPLUS
 DOCUMENT NUMBER: 105144902
 ORIGINAL REFERENCE NO.: 105123209a, 23212a
 TITLE: The new ligand
 1,3-diphenyl-5-(to-mecroptophenyl)-1,2,4-
 triazole. Preparation and mode of coordination to
 metals
 AUTHOR(S): Garzovskii, A. D.; Kozhikova, O. S.; Ryabukhin, Yu.
 I.
 CORPORATE SOURCE: Kostov, Gos. Univ., Kostov, USSR
 SOURCE: Koordinatsionnaia Khimiya (1986), 12(6), 853-4
 CODEN: KOSHRV; ISSN: 0132-3468
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB 1,3-Diphenyl-5-(to-mecroptophenyl)-1,2,4-triazole (EL) was prepared by
 boiling in HCl solution 4-hydroxy-1,3-benzoxazinone perchlorate and
 phenylhydrazine with subsequent treating with H₂O. M₂L (M = Co, Ni) were
 prepared and characterized by IR spectra. M₂L is square planar whereas
 CoL₂ is polymeric octahedral. The ligand coordinates through the S and
 N11 atoms. Aerial oxidation of EL gave the corresponding disulfide.
 IT 97189-41-9
 EL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with phenylhydrazine)
 RN 97189-41-9 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-phenyl-, perchlorate (PCI) (CA INDEX NAME)

CN 1

CNS 7601-96-3

CNP Cl 8 O 4



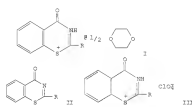
CN 2

CNS 7474-09-0

CNP Cl 4 H 8 N 2 O 8



14 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 19861474194 CAPLUS
 DOCUMENT NUMBER: 105137426
 ORIGINAL REFERENCE NO.: 10516075a, 6076a
 TITLE: Synthesis of 4-oxo-1,3-benzothiazines and their salts
 AUTHOR(S): Kozhikova, O. S.; Ryabukhin, Yu. I.; Garzovskii, A.
 D.; Shavel, I. I.
 CORPORATE SOURCE: Kostov, Gos. Univ., Kostov-on-Don, 334077, USSR
 SOURCE: Khimika Detektsionnoy Khimii (1985), (4),
 561-2
 CODEN: KOSHRV; ISSN: 0433-8234
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 48-1,3-Benzothiazin-4-one, 2-phenyl-, perchlorate (PCI) 103:37436



AB Cyclocondensation of o-SBCS(4)O28 with KCN (R = Ph, FCH₂) as disoxane
 containing KCl and 781 KClO₄-H₂O gave 60-70% complexes I which were
 treated
 with H₂O or Et₃N to give benzothiazines II; decrystn. of the complexes
 from MeOH or the action of heat gave 97 and 781 perchlorates III which
 could also be converted to II.
 IT 97189-41-9 97189-41-9
 EL: RCT (Reactant); SYN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (dehydration and hydrolysis of)
 RN 97189-41-9 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-phenyl-, perchlorate (PCI) (CA INDEX NAME)

CN 1

CNS 7601-96-3

CNP Cl 8 O 4



14 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

14 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CN 2

CNS 7474-09-0

CNP Cl 4 H 8 N 2 O 8



RN 97189-44-1 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(phenylmethyl)-, perchlorate (PCI) (CA
 INDEX NAME)

CN 1

CNS 67433-04-9

CNP Cl 5 H 11 N 2 O 8



CN 2

CNS 7601-96-3

CNP Cl 8 O 4



IT 7474-08-0F 47133-04-9F
 EL: RCT (Reactant); SYN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction with perchloric acid)
 RN 7474-08-0 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)

14 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RI 67433-04-9 CAPLUS
 CH 48-1,3-Benzothiazine-4-one, 2-(phenylmethyl)- (CA INDEX NAME)



IT 97189-43-9P 97189-45-2P
 RI: RCT (Reactant); SRN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Preparation; hydrolysis, and thermal decomposition of)
 RI 97189-43-9 CAPLUS
 CH 48-1,3-Benzothiazine-4-one, 2-phenyl-, perchlorate, compd. with 1,4-dioxane (2:1) (PCI) (CA INDEX NAME)

CH 3
 CHN 123-91-1
 CNF C4 H8 O2



CH 2
 CHN 97189-42-9
 CNF C14 H9 N O S . C1 H O4
 CH 3
 CHN 7601-90-3
 CNF C1 H O4

14 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CH 4
 CHN 7601-90-3
 CNF C1 H O4



14 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CH 4
 CHN 7616-90-9
 CNF C14 H9 N O S



RI 97189-45-2 CAPLUS
 CH 48-1,3-Benzothiazine-4-one, 2-(phenylmethyl)-, perchlorate, compd. with 1,4-dioxane (2:1) (PCI) (CA INDEX NAME)

CH 1
 CHN 123-91-1
 CNF C4 H8 O2



CH 2
 CHN 97189-44-1
 CNF C15 H11 N O S . C1 H O4
 CH 3
 CHN 67433-04-9
 CNF C15 H11 N O S

14 ANSWER 26 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:6351 CAPLUS
 DOCUMENT NUMBER: 192:6351
 ORIGINAL REFERENCE NO.: 192:1151a,1154a
 TITLES: Nitrides in heterocyclic synthesis: a new approach for the synthesis of thiazinones
 AUTHORS(S): Ibrahim, Nadia S.; Abady, Hossam M.; Kandeel, Zaghoul E.
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Heterocycles (1984), 22(8), 1677-82
 DOCUMENT TYPE: CODEN: HETUJN; ISSN: 0360-5414
 LANGUAGE: English
 OTHER SOURCE(S): JOURNAL
 DOI: CHEMREACT 192:6351



AB The benzothiazinones I (R = cyano, CONH2, CONHPh, CO2Et) were prepared in 60-90% yields by cyclization of o-acylbenzothiazines with PCl5. Reaction of o-acylbenzothiazines with PCl5 gave the thiazinone derivative II in 80% yield.
 IT 67433-02-7P 67433-03-SP
 RI: RCT (Reactant); SRN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Preparation and reaction of, with thioaldehydic acid)
 RI 67433-02-7 CAPLUS
 CH 48-1,3-Benzothiazine-2-acetonitrile, 4-oxo- (CA INDEX NAME)



RI 67433-03-8 CAPLUS
 CH 48-1,3-Benzothiazine-2-acetic acid, 4-oxo-, ethyl ester (CA INDEX NAME)



14 ANSWER 26 OF 45 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

1T 67412-05-00 93666-41-2P 93666-42-3P
93666-44-5P

KL: SPH (Synthetic preparation); PREP (Preparation)

[Preparation of]

88 67433-05-0 CAPLUS

CH 48-1,3-benzothiazine-2-acetamide, 4-oxo- (CA INDEX NAME)



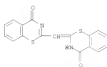
88 93666-41-2 CAPLUS

CH 48-1,3-benzothiazine-2-acetamide, 4-oxo-*o*-phenyl- (CA INDEX NAME)



88 93666-42-3 CAPLUS

CH 48-1,3-benzothiazine-4-one, 2,3-dihydro-2-[(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]- (CA INDEX NAME)



88 93666-44-5 CAPLUS

CH 48-1,3-benzothiazine-2-ethanethioamide, ω -(1-amino-2-[(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-4-oxo- (CA INDEX NAME)

14 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

ACCESSION NUMBER: 1992:172312 CAPLUS

DOCUMENT NUMBER: 9712312

ORIGINAL REFERENCE NO.: 9712312,12108a

TITLE: Studies of heterocyclic chemistry. Part 25.

INTRAMOLECULAR CYCLIZATIONS OF N-ARYLMETHANESULFONAMIDES LEADING TO THIAZOLES,

48-1,3-THIAZINES, 6H-PYRIDO[3,2-e]-1,3-THIAZINES, AND

48-1,3-BENZOTHIAZINES

AUTHOR(S): Nishikawa, Tarozaemon; Kawamura, Etsuko; Abe,

Murakami, Sanae; Yoshizaki, Hirofumi; Sonoda,

Kazumi; Nakamura, Jello

CORPORATE SOURCE: Dep. Chem., Yamaguchi Univ., Yamaguchi City, 753,

Japan

SOURCE: Journal of the Chemical Society, Perkin Transactions

1: Organic and Bio-Organic Chemistry (1972-1999)

(1982), (5), 1239-44

COMPTON: CQ984, 3280: 0300-322X

DOCUMENT TYPE: Journal

LANGUAGE: English

CHEM SOURCE(S): CASREACT 9712312

CI

ClCH₂CO₂H

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

Ph

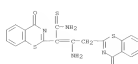
Ph

Ph

Ph

Ph

14 ANSWER 26 OF 45 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



14 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

1,3-benzothiazine-2-ethanethioamide, ω -(1-amino-2-[(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-4-oxo- (CA INDEX NAME)

1T 78959-04-2P 78959-05-4P 78959-06-5P

78959-07-6P 82491-32-3P 82491-33-4P

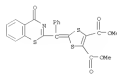
82491-24-5P

KL: SPH (Synthetic preparation); PREP (Preparation)

[Preparation of]

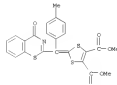
88 78959-04-3 CAPLUS

CH 1,3-benzothiazine-4,5-dicarboxylic acid, 2-[(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, dimethyl ester (PCI) (CA INDEX NAME)



88 78959-05-4 CAPLUS

CH 1,3-benzothiazine-4,5-dicarboxylic acid, 2-[(4-methylphenyl)(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, dimethyl ester (PCI) (CA INDEX NAME)

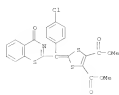


88 78959-06-5 CAPLUS

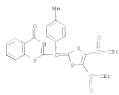
CH 1,3-benzothiazine-4,5-dicarboxylic acid, 2-[(4-chlorophenyl)(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, dimethyl ester (PCI) (CA INDEX NAME)



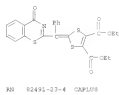
14 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2008 ACS on SYN (Continued)



9C1 78959-07-6 CAPLUS
CN 1,3-dithiole-4,5-dicarboxylic acid, 2-[(4-methylphenyl)(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, diethyl ester (9C1) [CA INDEX NAME]



9C1 82491-22-3 CAPLUS
CN 1,3-dithiole-4,5-dicarboxylic acid, 2-[(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, diethyl ester (9C1) [CA INDEX NAME]



9C1 82491-23-4 CAPLUS

14 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2008 ACS on SYN

ACCESSION NUMBER: 95115450 CAPLUS

DOCUMENT NUMBER: 95115450

ORIGINAL REFERENCE NO.: 9512973a,19176a

TITLE: A new and efficient approach to a

4H-1,3-benzothiazine

ring that utilizes the photocyclization of

N-o-iodobenzoylethioamides: the ring transformation

of isothiazoles

AUTHOR(S): Nishikawa, Taro;Sawano, Kazuo; Abe, Naoki

CORPORATE SOURCE: Fac. Sci., Yamaguchi Univ., Yamaguchi, 753, Japan

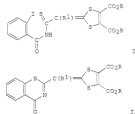
SOURCE: Heterocycles (1991), 36(7), 1193-4

CODEN: HETCYM ISSN: 0368-5814

LANGUAGE: English

OTHER SOURCE(S): CASREACT 95115450

GI



22

AS Irradiation of iodobenzoylethioamides I (R = Me, Et; R1 = Ph, 4-MeC6H4,

4-ClC6H4) in 70% gave 83-93% benzothiazinones II.

IT 78959-04-3F 78959-05-4F 78959-06-5F

78959-07-6F

R1: H2O (synthetic preparation) PREP (Preparation)

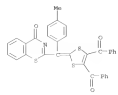
(isolation of)

9C1 78959-04-3 CAPLUS

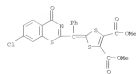
CN 1,3-dithiole-4,5-dicarboxylic acid, 2-[(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, diethyl ester (9C1) [CA INDEX NAME]

14 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2008 ACS on SYN (Continued)

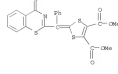
CN 4H-1,3-benzothiazin-4-one, 2-[[[4,5-dibenzoyl-1,3-dithiol-2-ylidene](4-methylphenyl)methyl]-] [CA INDEX NAME]



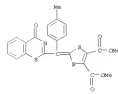
9C1 82491-24-3 CAPLUS
CN 1,3-dithiole-4,5-dicarboxylic acid, 2-[[[7-chloro-4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-], dimethyl ester (9C1) [CA INDEX NAME]



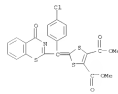
14 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2008 ACS on SYN (Continued)



9C1 78959-05-4 CAPLUS
CN 1,3-dithiole-4,5-dicarboxylic acid, 2-[(4-methylphenyl)(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, diethyl ester (9C1) [CA INDEX NAME]



9C1 78959-06-5 CAPLUS
CN 1,3-dithiole-4,5-dicarboxylic acid, 2-[(4-chlorobenzyl)(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, diethyl ester (9C1) [CA INDEX NAME]



9C1 78959-07-6 CAPLUS
CN 1,3-dithiole-4,5-dicarboxylic acid, 2-[(4-methylphenyl)(4-oxo-4H-1,3-benzothiazin-2-yl)methylene]-, diethyl ester (9C1) [CA INDEX NAME]

L4 ANSWER 11 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1976:421262 CAPLUS
 DOCUMENT NUMBER: 85121262
 ORIGINAL REFERENCE NO.: 851247A, 2476a
 TITLE: Synthesis of 2,2'- and 2,4'-substituted 1,3-benzothiazines
 AUTHOR(S): Szabo, J.; Varga, I.
 CORPORATE SOURCE: Dep. Pharm. Chem., Med. Univ., Szeged, Hung.
 SOURCE: Acta Chimica Academica Scientiarum Hungaricae (1976), 88(1), 42-4
 CORDIS: ACASAP; ISSN: 0001-5407
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 85121262
 GI



AB Alkylbenzothiazinones I; R = H, R1 = Et, PhCH2; R = MeO, R1 = Et, Bu, PhCH2 were obtained in 19.3-38.24% yields by alkylation of the corresponding benzothiazinone with R1MgX (R = halo). Analogously obtained
 38.2-48.54 II (R = H, MeO, R1 = Ph).
 IT 7474-08-0
 RI: RCT (Reactant); RACT (Reactant or reagent)
 (alkylation of, by ethylmagnesium bromide)
 RH 7474-08-0 CAPLUS
 CH 48-1,3-Benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)



IT 56755-15-8P
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and alkylation of)
 RH 56755-15-8 CAPLUS
 CH 48-1,3-Benzothiazin-4-one, 6,7-dimethoxy-2-phenyl- (CA INDEX NAME)

L4 ANSWER 12 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1976:6890 CAPLUS
 DOCUMENT NUMBER: 846890
 ORIGINAL REFERENCE NO.: 846824, 8294
 TITLE: Oxyanion-2-mecaptothiazole acid condensations. Route to bis-1,3-benzothiazin-4-ones
 AUTHOR(S): Benda, Med. D.; Schaeffer, Lee A.
 CORPORATE SOURCE: Gen. Health Sci., Lehigh Univ., Bethlehem, PA, USA
 SOURCE: Journal of Heterocyclic Chemistry (1975), 12(4), 783-4
 CORDIS: OTCBAY; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI: For diagram(s), see printed CA issue.
 AB The bisbenzothiazinones 7 (R = H, Cl; R' = Cl, Me, H) were prepared
 (12-914)
 RI: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RH 57446-13-45 CAPLUS
 CH 48-1,3-Benzothiazin-2-carboxamide, 6-methyl-4-oxo- (CA INDEX NAME)



L4 ANSWER 11 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 13 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1975:047442 CAPLUS
 DOCUMENT NUMBER: 85147442
 ORIGINAL REFERENCE NO.: 8512163a, 23166a
 TITLE: Reaction of 48-1,3-benzothiazin-4-ones with Grignard reagents
 AUTHOR(S): Varga, Istvan; Szabo, Janos; Sober, Pal
 CORPORATE SOURCE: Pharm.-Chem. Inst., Med. Univ. Szeged, Szeged, Hung.
 SOURCE: Chemische Berichte (1975), 108(8), 2523-32
 CORDIS: CHEMAN; ISSN: 0009-0940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 85147442
 GI: For diagram(s), see printed CA issue.
 AB Benzothiazinone I reacted with Grignard reagents R1MgX to give dihydrobenzothiazinones II (R = H, R1 = Et, CH2Ph; R = MeO, R1 = Et, Bu, CH2Ph) and benzothiazinols III (R = H, MeO, R1 = Ph). PhCH2MgBr gave, in addition to II (R = MeO, R1 = CH2Ph), benzylidenebenzothiazine IV, probably
 formed via intermediate III (R = MeO, R1 = CH2Ph).
 IT 7474-08-0
 RI: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with Grignard reagent)
 RH 7474-08-0 CAPLUS
 CH 48-1,3-Benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)



IT 56755-15-8
 RI: RCT (Reactant); RACT (Reactant or reagent)
 (reaction with Grignard reagent)
 RH 56755-15-8 CAPLUS
 CH 48-1,3-Benzothiazin-4-one, 6,7-dimethoxy-2-phenyl- (CA INDEX NAME)



14 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 ACCESSION NUMBER: 1969;03108 CAPLUS
 DOCUMENT NUMBER: 7119108
 ORIGINAL REFERENCE NO.: 7117121a, 7022a
 TITLE: Synthesis and study of 1,3-benzothiazines. II.
 AUTHOR(S): Bourguin-Lévy, Danièle Reudet, Roger
 CORPATE SOURCE: Lab. Chim. Org., Fac. Sci. Dakar, Dakar, Senegal
 SOURCE: Bulletin de la Société Chimique de France (1969), 171,
 2152-6
 CORDIS: BCPV93; ISBN: 0017-3968
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 CORDIS SOURCE(S):
 AB Treatment of 2-alkyl-48-1,3-benzothiazine (I) with air or H₂O₂ results in preferential oxidation of the S atom, rather than the 4-CRE group. Although the corresponding 2-aryl compounds are resistant to air oxidation, careful treatment with KMnO₄ in Me₂CO solution leads to either S oxidation or 4-CRE oxidation, or to oxidation at both positions, depending on exact conditions. Reaction of I with AgNO₃ and allylation with MeI results in exclusive substitution at the 4-position. A number of other oxidation, substitution, and acylation reactions are described. Refluxing 0.7 g. 2-methyl-48-1,3-benzothiazine (II) in 20 ml. concentrated HCl 24 hrs. and basification gave 0.1 unchanged II, but further treatment of the alkaline filtrate with HCl yielded 504 M, 9,9-dimethyl derivative of 2-mercaptobenzylamine. Heating 2 g. 2-phenyl-48-1,3-benzothiazine (III) in 20 ml. 50% H₂O₂ 6 hrs. gave 802, 0.4 g. PhC(SH)₂ and 0.5 g. 2-phenylthiothiazole. Upon being exposed to air 2 months, 1 g. II afforded approx. 0.5 g. 2-methyl-1-oxo-48-1,3-benzothiazine (IV), m. 158° [KOH]. Similarly prepared were 2-ethyl-1-oxo-48-1,3-benzothiazine (V), n.
 137-8° [KOH], and 2-isopropyl-1-oxo-48-1,3-benzothiazine, m. 119-20° [H₂O-HOH]. Treatment of 2 g. II in 40 ml. AcOH with 40 ml. dilute H₂O₂ 4.5 hrs. afforded 448 V. Under these conditions, V was obtained in 72% yield, but 2-(p-anisyl)-48-1,3-benzothiazine (VI) remained unaffected. A solution of 4.5 g. III in 270 ml. Me₂CO was stirred with 10.2 g. KMnO₄ 4 hrs., kept another 12 hrs., filtered, evaporated, and the residue extracted with PhOH to give 4-oxo-2-phenyl-1,3-benzothiazine (VII), m. 123-5°. Reaction of 1 g. III with 2 g. KMnO₄ in 40 ml. Me₂CO 3 hrs., addition of 20 ml. concentrated HCl and dilution with 200 ml. H₂O afforded 0.3 g. 2,2-dihydro-1,4-dioxo-2-phenyl-1,3-benzothiazine (VIII), m. 203-4°, and 0.1 g. mixture containing VII and VIII. Stirring a mixture of 1 g. 2,3-dihydro-4-oxo-2-phenyl-1,3-benzothiazine and 1 g. PhNO in 30 ml. Me₂CO at room temperature 24 hrs., heating on a steam bath 1 hr., and addition of 10 ml. concentrated HCl and 150 ml. H₂O yielded 0.3 g. VIII. Starting from VI,
 10.2 g. PhNO 4 hrs., kept another 12 hrs., filtered, evaporated, and the residue extracted with PhOH to give 4-oxo-2-phenyl-1,3-benzothiazine (VII), m. 123-5°. Reaction of 1 g. III with 2 g. KMnO₄ in 40 ml. Me₂CO 3 hrs., addition of 20 ml. concentrated HCl and dilution with 200 ml. H₂O afforded 0.3 g. 2,2-dihydro-1,4-dioxo-2-phenyl-1,3-benzothiazine (VIII), m. 203-4°, and 0.1 g. mixture containing VII and VIII. Stirring a mixture of 1 g. 2,3-dihydro-4-oxo-2-phenyl-1,3-benzothiazine and 1 g. PhNO in 30 ml. Me₂CO at room temperature 24 hrs., heating on a steam bath 1 hr., and addition of 10 ml. concentrated HCl and 150 ml. H₂O yielded 0.3 g. VIII. Starting from VI,

14 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



14 ANSWER 35 OF 45 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 ACCESSION NUMBER: 1967;04170 CAPLUS
 DOCUMENT NUMBER: 6745770
 ORIGINAL REFERENCE NO.: 678227a, 6259a
 TITLE: Lithium aluminum hydride hydrogenation test on a 1,3-benzothiazine
 AUTHOR(S): Bourguin-Lévy, Danièle Reudet, Roger
 CORPATE SOURCE: Univ. Dakar, Dakar, French West Africa
 SOURCE: Comptes Rendus des Séances de l'Académie des Sciences,
 Paris C, Sciences Chimiques (1967), 264(15), 1504-6
 CORDIS: CHEQ94; ISBN: 0567-8541
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 GI For diagram(s), see printed CA issue.
 AB The reduction of 2-phenyl-4-oxo-1,3-benzothiazine (I) with LiAlH₄ led, unexpectedly, to 3 products: 2-mercaptobenzylamine (II), benzisothiazole (VI), and benzyl alc. These provided an interesting confirmation of the initial structure. 1 (9.6 g.) was treated with 2.5 g. LiAlH₄ in 50 ml. anhydrous ether. The mixture was extracted 6 hrs., heated 5 hrs., cooled, 10 ml. EtOH added carefully, and then 70 ml. 1% HCl-H₂O added. The aqueous phase was made alkaline, and approx. 1 g. benzisothiazole was obtained.
 1A (15 ml.) was added to the aqueous solution to yield 10 g. precipitate, m. 143°. Identical with the N,8-dibenzoylated derivative of II (CA 64: 15762c). Evaporation of the solvent from the ether phase and distillation of the residue yielded 3.8 g. benzyl alc.
 17 7474-08-0
 Reagent; RACT (Reactant or reagent)
 (reduction of, with lithium tetrahydrosulfonate)
 18 7474-08-0 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)
 19 2-phenyl-1,3-benzothiazine, m. 178.5-9.5° (PhOH), and 224° (PhOEt), were prep. via similar procedures. Likewise, oxides of 2-(p-bromophenyl)-48-1,3-benzothiazine (IX) led to 2-(p-bromophenyl)-1,4-dioxo-1,3-benzothiazine, m. 157.5-8° (PhOH), and 2-(p-bromophenyl)-2,3-dihydro-1,4-dioxo-1,3-benzothiazine, m. 207° (PhOEt). Under these conditions, II yielded only 10 ml. EtOH was treated with 2 g. AgNO₃ in 5 ml. H₂O and 20 ml. PhOH, the insol. Ag salt added to a soln. of 1 ml. MeI in 50 ml. PhOH, and the mixt. stirred at room temp. 1 hr. and at 50° 2-5 hrs. to give 0.4 g. 2-ethyl-4-methyl-1,3-benzothiazine, m. 80-1° (CH₂Cl₂-pet. ether). Similar reaction of IV furnished an unstable Ag salt which was treated directly with MeI in EtOH at room temp. to give 2,4-dimethyl-1-oxo-1,3-benzothiazine, m. 102° (CCl₄). Propose addn. of 6 ml. 20% Et in CCl₄ to 1 g. III in 70 ml. CCl₄ gave 1.1 g. red solid, C₁₄H₁₁NS₂, m. 145°. Treatment of this compd. with hot PhOH gave VII. Brominations were likewise studied with VI, IX, and 2-(p-nitrophenyl)-48-1,3-benzothiazine, but complex mixts. of products were obtained.
 17 7474-08-0 2374-20-1P 2374-21-2P
 18 7474-08-0 (Chemical preparation); REEP (Preparation)
 (Preparation of)
 19 7474-08-0 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)
 20 2374-20-1 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(p-methoxyphenyl)- (PCI) (CA INDEX NAME)
 21 2374-21-2 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(p-bromophenyl)- (PCI) (CA INDEX NAME)
 22 2374-21-2 CAPLUS
 CN 48-1,3-Benzothiazin-4-one, 2-(p-bromophenyl)- (PCI) (CA INDEX NAME)



2374-20-1 CAPLUS
 48-1,3-Benzothiazin-4-one, 2-(p-methoxyphenyl)- (PCI) (CA INDEX NAME)



2374-21-2 CAPLUS
 48-1,3-Benzothiazin-4-one, 2-(p-bromophenyl)- (PCI) (CA INDEX NAME)

14 ANSWER 36 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STN
 ACCESSION NUMBER: 1962;475936 CAPLUS
 DOCUMENT NUMBER: 57175955
 ORIGINAL REFERENCE NO.: 57151050-g
 TITLE: Synthesis and biological activity of some 4-(substituted-amino)pyrimidines
 AUTHOR(S): Segal, Rayn; Hedgcock, Charles; Skinner, Charles G.
 CORPORATE SOURCE: Journal of Medicinal & Pharmaceutical Chemistry
 SOURCE: (1962), 4, 871-874
 CORDIS JMCAS; ISBN: 0091-9065
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB A series of 13 4-(substituted-amino)pyrimidines were prepared and tested for their effect on the rate of seed germination. None of the compounds

enhance the rate of germination and all were relatively non-toxic to the seed. From these results as well as earlier tests it appears that the pyrimidine nucleus is essential for producing analogs with kinsin-like activity. A mixture of 2.88 g. 2,4-dimercaptopyrimidine and 4.38 g. BMSB was refluxed 5

hrs., cooled, 50 ml. H₂O added, and the precipitate re-crystallized from MeOH to give 3.5 g. 4-butylanino-2-pyrimidinethiol, m. 212-14° (decomposition). Prepared similarly were: 4-isopentylanino-2-pyrimidinethiol, m. 198-9° (decomposition); 4-n-pentylanino-2-pyrimidinethiol, m. 206-4° (decomposition); and 4-o-pentylanino-2-pyrimidinethiol, m. 179-80° (decomposition). 4-o-pentylanino-2-pyrimidinethiol (5.3 g.), 2.07 g. chloroacetic acid, and 55 ml. H₂O was heated 1 hr., cooled,

evaporated to dryness in vacuo, and the residue recrystallized from MeOH-Me₂CO-dioxane to give 4 g. 2-carboxypentylthio-4-o-pentylaninopyrimidine-HCl, m. 141-3° (decomposition). 2-Carboxypentylthio-4-o-pentylaninopyrimidine-HCl (11.28 g.) and 50 ml. concentrated HCl was refluxed 4 hrs., cooled, the pH

adjusted to 7 with NaOH, and the precipitate recrystallized from H₂O to give 0.7 g. 4-o-pentylanino-2-pyrimidinol, m. 195-7° (decomposition). 4-n-pentylanino-2-pyrimidinethiol (3.17 g.), 1.59 g. Na₂CO₃, and 12 g. Xaney III in 100 ml. EtOH was refluxed 24 hrs., filtered while hot, 12 g. Xaney III added, refluxed 8 hrs., filtered, the filtrate evaporated to

dryness in vacuo, and the residue crystallized from hexane-CEB to give 0.8 g. 4-n-pentylaninopyrimidine, m. 61-3°. Prepared similarly were: 4-o-pentylaninopyrimidine-HCl, m. 147-5° (decomposition); 4-benzylaninopyrimidine, m. 105-7°; and 4-(2-tert-butylmethoxyphenylamino)pyrimidine-HCl, m. 155-7°.

IT 97514-38-59, 18-1,3-Benzothiazin-4(3H)-one, 1-ethyl-2-phenyl-3661-44-59, 18-1,3-Benzothiazin-4(3H)-one, 2-phenyl-1-propyl-RII PREP (Preparation of)

97514-38-8 CAPLUS
 CN 18-1,3-Benzothiazin-4(3H)-one, 1-ethyl-2-phenyl- (7CI) (CA INDEX NAME)

14 ANSWER 37 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STN
 ACCESSION NUMBER: 1962;475955 CAPLUS
 DOCUMENT NUMBER: 57175955
 ORIGINAL REFERENCE NO.: 57151050-g
 TITLE: Unexpected reaction of alkyl halides with silver derivative of a benzothiazinone
 AUTHOR(S): Boudet, Roger
 CORPORATE SOURCE: Univ. Dakar, W. Africa
 SOURCE: Compt. Rend. (1962), 255, 533-5
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB For diagram(s), see printed CA issue.
 AB 25.2 g. 2-phenyl-1,3-benzothiazinone and 80 ml. boiling EtOH was dissolved 2 g. AgNO₃ and the mixture cooled to precipitate 3.5 g. 1, pale yellow, decomposed at 82°. 1, 2 g. MeI, and 50 ml. EtOH stirred 2 hrs. at 50°, the mixture filtered, the filtrate evaporated, and the residue crystallized from EtOH gave 1.5-2 g. 1-methyl derivative (II) of 1, m.

81°. Hydrolysis of II in boiling H₂O gave PhCHO and 2-methyl-2-oxo-1,3-benzothiazin-4(3H)-one (III). Remolysis of II made were 1-Me, m. 55°, and 1-Et, m. 50°. Corresponding homologs of III were 2-Et, m. 131-2°, and 2-Pr, m. 121-1°, which was further hydrolyzed to 2-PhCHO and 2-Me, m. 121-3-3.5°.

IT 97514-38-59, 18-1,3-Benzothiazin-4(3H)-one, 1-methyl-2-phenyl-97514-38-59, 18-1,3-Benzothiazin-4(3H)-one, 1-ethyl-2-phenyl-9661-44-59, 18-1,3-Benzothiazin-4(3H)-one, 2-phenyl-1-propyl-RII PREP (Preparation of)

97514-38-8 CAPLUS
 CN 18-1,3-Benzothiazin-4(3H)-one, 1-methyl-2-phenyl- (7CI) (CA INDEX NAME)



97514-38-8 CAPLUS
 CN 18-1,3-Benzothiazin-4(3H)-one, 1-ethyl-2-phenyl- (7CI) (CA INDEX NAME)



9661-44-59 CAPLUS
 CN 18-1,3-Benzothiazin-4(3H)-one, 2-phenyl-1-propyl- (7CI) (CA INDEX NAME)

Haibe

14 ANSWER 36 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



9661-44-59 CAPLUS
 CN 18-1,3-Benzothiazin-4(3H)-one, 2-phenyl-1-propyl- (7CI) (CA INDEX NAME)



14 ANSWER 37 OF 45 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



9661-44-59 CAPLUS
 CN 18-1,3-Benzothiazin-4(3H)-one, 2-phenyl-1-propyl- (7CI) (CA INDEX NAME)

14 ANMEXA 38 OF 45 CAPULUS COPYRIGHT 2008 ACS on STM (Continued)
ACCESSION NUMBER: 196127812 CAPULUS
ORIGINAL REFERENCE NO.: 55127812
TITLE: Arylbenzo[e]-1,3-thiazine derivatives. III.
Verification of the position of the alkyl groups in arylbenzo[e]-1,3-thiazine derivatives by synthesis
AUTHOR(S): Winkler, R.
CORPORATE SOURCE: Med. Univ., Szeged, Hung.
SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1959), 17, 201-9
CODING AGENCY: ISBN: 0001-5407

DOCUMENT TYPE: Journal
LANGUAGE: German
AB OF CA 51, 4358r.
The position of the alkyl groups in several dialkylbenzo[e]-1,3-thiazine dyes was verified by oxidation of the benzothiazine dyes to 6-oxo deriv., and comparison of these with the same products obtained from 5-arylthiothiazinylidene, the alkyl

products of which were known. The 5-arylthiothiazinylidene dyes which were prepared from 6,7-dialkyl groups obtained from 6,7,8-trimethyl-2-oxo-2H-chromene, were cyclized to 6-oxo deriv. according to Bohne and Schmidt (cf. CA 69, 15964i). Thus, 2,85 g. 2-phenyl-6,7-dimethoxybenzo[e]-1,3-thiazine in 20 ml. EtOH treated with 1.15 g. CrO3 in 3 ml. EtOH and 2 ml. EtOH gave after 10 min. 0.5 g. 2-phenyl-4-oxo-6,7-dimethoxybenzo[e]-1,3-thiazine (II), yellow needles, m. 185-80° (alc.). Similarly prepared were: from 0.84 g. 2-(4,6-dimethoxyphenyl)-6,7-dimethoxybenzo[e]-1,3-thiazine, 0.25 g. 2-(4,6-dimethoxyphenyl)-4-oxo-6,7-dimethoxybenzo[e]-1,3-thiazine (III), yellow needles, m. 217-38° (alc.); from 1.77 g. 2-phenyl-1,3-dimethoxybenzo[e]-1,3-thiazine, 0.52 g. 2-phenyl-4-oxo-6,7-dimethoxybenzo[e]-1,3-thiazine (III), yellow needles, m. 184-5° (alc.). 5,4,4'-diethyl-2-oxo-2H-chromene (I), 19.4 g. in 100 ml. EtOH and 10 ml. concentrated

HCl added at 0° to 3.45 g. NaOH in 15 ml. EtOH, the mixture stirred 1 hr. at 0°, added with stirring to a solution prepared from 31 g. NaOH, 15 ml. EtOH, and 3.77 g. 2, treated with 2.11 g. NaOH in 100 ml. EtOH and with 50 cc. crushed ice, the mixture stirred 3 hrs. until H evolution ceased,

acidified with HCl, the precipitate filtered off, washed with EtOH, dissolved in dilute HAcOEt, treated with C, precipitated with concentrated HCl, filtered, washed with 50% EtOH, 2 g. Zn added, the mixture refluxed 3 hrs.,

cooled, centrifuged, the precipitate heated 15 min. with 5 g. NaOH in 50 ml.

EtOH, filtered, the solution acidified with HCl, and the precipitate filtered off, washed with EtOH, and dried gave 4.6 g. 4,5-dimethoxythiazinylidene acid (IV), needles, m. 184-5° (alc.). IV (4.3 g.) in 20 ml. alc.

treated with a saturated alk. iodine solution until just colored brown, EtOH

added, the precipitate formed filtered off, washed with 50% alc., and dried at 105° gave 3.95 g. 4,4',5,5'-tetramethoxythiazinylidene

ANMEXA 38 OF 45 CAPULUS COPYRIGHT 2008 ACS on STM (Continued)
diacidide-2,2'-diacetoxylic acid (V), needles, m. 248-50° (alc.). V (8.52 g.) dissolved in the EtOH bath in a soln. of 4 g. KNO3 in 30 ml. EtOH, evaporated to dryness at 105°, the residue pulverized, suspended in 50 ml. EtOH, gradually treated with 30 g. SOCl2, refluxed 30 min., the solvent and EtOH distilled, in vacuum, the melt 2-voled, and the crystals formed washed with 15-20 ml. petr. ether gave 7.2 g. 4,4',5,5'-tetramethoxythiazinylidene-2,2'-diacetoxylic acid (VI), needles, m. 147-58° (CHCl3). VI (6.65 g.) treated in 60 ml. EtOH acid. with dry HCl, gave 5.2 g. 4,4',5,5'-tetramethoxythiazinylidene-2,2'-diacetoxylic acid (VII), needles, m. 221-33° (alc.). VII (4.24 g.) in 30 ml. EtOH treated with 1 g. 3n. NaOH, and the melt refluxed 3 hr. gave 5.55 g. 4,5-dimethoxythiazinylidene (VIII), yellow needles, m. 169-70° (alc.). VIII (5.11 g.) in 8 ml. alc. EtOH gradually treated with 1.4 g. HCl, filtered 30 min., poured into EtOH, EtOH and crushed ice, the product filtered off, washed with EtOH, and dried gave 2.7 g. 5-benzoylthiazinylidene (IX), needles, m. 179-50° (alc.). Two-thirds of a soln. of 3.55 g. IX in 30 ml. alc. pyridine distill. with slow introduction of dry HCl, the remainder of the solvent distill. in vacuo after shutting off the HCl, the residue dissolved in EtOH, washed with 8 NaOH and EtOH, dried, the solvent distilled, and the residue crystd. from alc. gave 0.9 g. I, m. 189-90°. VIII (1.07 g.) treated with 1.15 g. HClO4 in EtOH, in the progress of IX gave 1.3 g. 5-venetralyl-4,5-dimethoxythiazinylidene (X), needles, m. 178-3° (alc.). X (0.35 g.) treated as in the prep. of I gave 0.4 g. II, m. 217-18° (alc.). o-CH3C6H4OEt (12.5 g.) and 45 g. PhNHCN in 50 g. POCl3 refluxed 30 min. in a EtOH bath, the melt, poured into 50 g.

EtOH, extd. with 200 ml. EtOH, washed with EtOH, shaken 7 hrs. with 50 g. NaOH in 150 ml. EtOH, the soln. phase separ., treated with solid Na2CO3, the freed aldehyde extd. with EtOH, the EtOH layer washed with EtOH, dried, the mixture distilled, and the residue distd. in vacuo gave 34.6 g. 3,4-(R)-CH2CH2CN (XI), m. 139-40° (alc.). XI 1.557, dlt. 5.1.021. XI (22.9 g.) nitrated with 600 g. HNO3 in 600 ml. EtOH, the mixture gradually treated with 85 g. PhNHCN in 600 ml. EtOH until decolorization of the permanganate took place, the soln. filtered hot and acidified with concd. HCl gave 32.3 g. 6,7-(R)-CH2CH2CN (XIII), needles, m. 42-3° (CHCl3). XIII (11.95 g.) in 250 ml. alc. hydrogennated at 50° and in pressure with 2.25 g. H2-C gave 39.2 g. 6,7-(R)-CH2CH2CN (XIV), prisms, m. 135-4° (CHCl3) (alc.). XIV (9.19 g.) treated as in the prep. of IV gave 4 g. 2,3-bis(4-methoxyphenyl)-4,5-dimethoxythiazinylidene (XV), needles, m. 202-3° (alc.). XV (3.43 g.) treated as in the prep. of V gave 3.3 g. 4,4',5,5'-tetramethoxythiazinylidene-2,2'-diacetoxylic acid (XVI), needles, m. 239-40° (alc.). XVI (2.25 g.) treated as in the prep. of V gave 7.4 g. 4,4',5,5'-tetramethoxythiazinylidene-2,2'-diacetoxylic acid (XVII), yellow needles, m. 195-5° (CHCl3 and petr. ether). XVII (5.19 g.) treated as in the prep. of VII gave 4 g. 4,4',5,5'-tetramethoxythiazinylidene-2,2'-diacetoxylic acid (XVIII), needles, m. 219-5° (alc.). XVIII (2.25 g.) treated as in the prep. of VII gave 2.5 g. 4,5-dimethoxythiazinylidene (IX), needles, m. 160-3° (alc.). XIX (2.41 g.) treated as in

14 ANMEXA 39 OF 45 CAPULUS COPYRIGHT 2008 ACS on STM (Continued)
ACCESSION NUMBER: 196128128 CAPULUS
ORIGINAL REFERENCE NO.: 54128128
TITLE: Studies on thiazine oxobenzon-6-thiazine and some of its 2-alkylthiazinylidene derivatives
AUTHOR(S): Contini, L.; Spallacci, D.
CORPORATE SOURCE: Univ. Bari, Italy
SOURCE: Boll. Soc. Chim. Italiana, 1959, 35, 29-32
CODING AGENCY: ISBN: 0364-2055

DOCUMENT TYPE: Journal
LANGUAGE: Available
AB OF Contini and Spallacci, CA 51, 3792a; SI, 1792a; New thiazine

derivs. of potential pharmac. interest were prepared in view of earlier and related work. 4-oxobenzon-6-thiazine-2-carboxylic acid (I), m. 101° (EtOH), was prepared by acid-catalyzed hydrolysis of 4-oxobenzon-6-thiazine-2,2'-diacetoxylic acid in 20 ml. anhydrous dioxane, cooling the mixture on

low and salt, passing in a stream of dry HCl 3 hrs., allowing the mixture to stand overnight at 0°, filtering, neutralizing the aqueous suspension of the precipitate with NaOH over ice, and working up the acid precipitate (4 g.

crude). 4-oxobenzon-6-thiazine (II), CHN80.0, neutral taste, m. 3.15° (EtOH), was prepared by refluxing 100 ml. EtOH to solution and taking to near dryness. Et. ext. of 4-oxobenzon-6-thiazine-2-acetoxylic acid, needles, m. 172° (EtOH and petr. ether), prepared analogously from 3 g. thiazolylidene acid and 2.4 g. R-CH2CH2CN in 20 ml. dioxane in 2-3 g. yield. 2-Chloromethyl-4-oxobenzon-6-thiazine (III), m. 115° (benzene and a little absolute alc.), was similarly prepared in 3.1-g. yield.

From 3 g. thiazolylidene acid and 1.62 g. CH3CH2CN in 25 ml. anhydrous dioxane it was not stable in air. 2-Morpholinomethyl derivative of II,

m. 151° (C6H6), 2-piperidinomethyl derivative of II, needles, m. 135° (C6H6), 2-thiophenylmethyl derivative of II, needles, m. 160° (alc.-CHCl3), and 2-cyclohexylmethyl derivative of II, needles, m. 185° (CHCl3 and petr. ether), were prepared by refluxing 1 mole III and 2.5 molar of the prep. amine in C6H6 and working up the products.

67433-03-89, 48-1,3-benzothiazine-2-acetoxy acid, 4-oxo-, ethyl ester 98931-85-49, 48-1,3-benzothiazine-2-carboxylic acid, 4-oxo-, 94551-37-49, 48-1,3-benzothiazine-2-carboxylic acid, 4-oxo-, 106613-53-79, 48-1,3-benzothiazine-4-one, 2-(diethylaminoethyl)-10878-37-79, 48-1,3-benzothiazine-4-one, 2-morpholinomethyl-100935-60-49, 48-1,3-benzothiazine-4-one, 2-(cyclohexylaminoethyl)-101938-35-49, 48-1,3-benzothiazine-4-one, 2-piperidinomethyl-67433-03-8 CAPULUS

(preparation of)
AB OF Contini and Spallacci, CA 51, 3792a; SI, 1792a; New thiazine

derivs. of potential pharmac. interest were prepared in view of earlier and related work. 4-oxobenzon-6-thiazine-2-carboxylic acid (I), m. 101° (EtOH), was prepared by acid-catalyzed hydrolysis of 4-oxobenzon-6-thiazine-2,2'-diacetoxylic acid in 20 ml. anhydrous dioxane, cooling the mixture on



20 101734-41-3 CAPULUS
48-1,3-benzothiazine-4-one, 6,7-dimethoxy-2-phenyl- (CA INDEX NAME)



20 101734-79-6 CAPULUS
48-1,3-benzothiazine-4-one, 2-(3,4-dimethoxyphenyl)-6,7-dimethoxy- (CA INDEX NAME)



20 101734-79-6 CAPULUS
48-1,3-benzothiazine-4-one, 2-(3,4-dimethoxyphenyl)-6,7-dimethoxy- (CA INDEX NAME)

14 ANWISER 41 OF 65 CAPULS COPYRIGHT 2009 ACS on STM (Continued)

ACCESSION NUMBER: 1960:19709 CAPULS

DOCUMENT NUMBER: 54119709

ORIGINAL REFERENCE NO.: 54119709-1, 195304-6

TITLE: Chlorination and bromination of cyclic acetals

AUTHOR(S): Oest, L. A.; Pearson, Ronald G.

CORPORATE SOURCE: Battersea Coll. Technol., London

SOURCE: Journal of the Chemical Society (1960) 1682-7

COINDE: JCS(AN); ISSN: 0368-1769

DOCUMENT TYPE: General

LANGUAGE: Unavailable

OTHER SOURCE(S): CHEMABST 54119709

AB C1 was fed into 55 g. molten triane-1,4,5,8-tetraoxide/dichlorohexane [1], prepared according to Conradi and Kroll (CA 31, 1744 in a solution of a crystal of iodine at 140° until 1 mole was absorbed. Distillation gave 4.2 g. fraction, b.p. 174-175°, from which was obtained 7,7-dioxo-1,4-dioxane, m. 144-0.5°, infrared absorption broad band 1740 cm⁻¹. During chlorination, 60 g. volatile material was passed through a KIO₄-condenser and trap at 0° to give 1.4 g. liquid condensate, no solid derivative could be obtained with KIO₄ and a napthalene IR from the liquid fraction (0.33 g.), b.p. 164-166°, 2 (b.p. 167°) chlorinated as above, combined until 0.5 mole was absorbed, and the mixture held 5 hrs. at 80-95°/1 mm, gave 22.6 g. substance, m. 133-8° (CCl₄) and a liquid residue, which, on distillation, gave 11.9 g. distillate, b.p. 90-150° and 14.8 g. residue which did not distill at 145°/0.2 mm. 31,2-Bromomethyl oxalate (7a), m. 55.0-5.5° (C₆H₅-lignocaine) was obtained from H₂CO₃ (64% yield) by the method of Conradi et al. (119, 3) g. and 25.2 g. 8-bromomethylene (71) was heated in a sealed tube 22 hrs. at 120°, the product extracted with CCl₄, the CCl₄ distilled, and the residue (4.2 g.) held 4 hrs. at 80°/14 mm. (0.22 g.) unchanged 7 sublimed to give 0.5 g. murexide insoluble, m. 50-53.5° (C₆H₅-lignocaine), infrared absorption 4000-450 cm⁻¹, strong at 1774 and 1745. 1,3-Dioxolane (71) (26 g.) containing 0.5 g. iodine was chlorinated at the b.p. (azeotropic reaction) to constant weight (7 days), the product distilled at atmospheric pressure, and the main fraction distilled 3 more times to give 185 g. 2-chloromethyl formate.

(71a), b.p. 131-2°, n_D20 1.4231. Br (294 g.) was added dropwise to 136 g. 71 at 0° to give 425.5 g. product which, on repeated distillation in vacuo, gave 37 g. 2-bromomethyl formate (70), b.p. 147-9°, n_D20 1.440-0.5, n_D20 1.4611; approx. the same yield of IV was obtained with all distrs. except the 1st at atmospheric pressure. Evidence is given of thermal rearrangement of 2-chloromethyl oxalate with that for 2-bromomethyl oxalate. Bromination of 23.5 g. 71 in 25 ml. CCl₄ with 50 g. 71 and distillation in vacuo gave 17.4 g. b.p. 144.0-4.3, n_D20 1.4611.

A fraction, b.p. 124-5°, after hydrolysis with H₂O at 80° and treatment with Brady's reagent, gave, as derivative (separated with EtOH), the following 2,4-dinitrophenylhydrazones: glyoxal bis-, m. 333-6°

14 ANWISER 42 OF 65 CAPULS COPYRIGHT 2009 ACS on STM (Continued)

ACCESSION NUMBER: 1960:19709 CAPULS

DOCUMENT NUMBER: 54119709

ORIGINAL REFERENCE NO.: 54119709-1

TITLE: A new heterocyclic system of the benzo[4,5]thiazine type, II

AUTHOR(S): Bender, Roger

CORPORATE SOURCE: Fac. Sci., Dakar

SOURCE: Bulletin de la Societe Chimique de France (1959) 1791-3

COINDE: RSC(AN); ISSN: 0037-8948

DOCUMENT TYPE: General

LANGUAGE: Unavailable

AB R² C.A. 49, 537Ne. By condensation of PhCCl₃ with 2-mercaptoethanamide [I] in the presence of Zn in p-xylene, 2-phenylbenzo[4,5]m-thiazine-6-one (II) was obtained. Benzyl ester against the usual reactions.

except R²CO₂. This great stability is apparently due to considerable resonance stabilization. A suspension of 20 g. in derivative of 13 in 36.5 ml. PhCCl₃ and 200 ml. anhydrous pyridine was slowly heated under vigorous stirring for 6-8 hrs. until the HCl evolution ceased. After chilling the solvent was dried and the residue dissolved in 100 ml. boiling PhCN. On cooling, 12 g. crude II was isolated and recryst. from CHCl₃ or PhCN to yield 43%.

II, m. 108.3-9.0°, 11 (I g.) in 80 ml. pure R²CO₂ was heated slowly to 40°, until the evolution of H₂O ceased, and, after 24 hrs. at room temperature, 1 cc. was added to yield 0.6 g. (m.p. 108-109°C) (84% yield). m. 249°, and 0.5 g. R²CO₂.

IT 7414-07-97, 48-1,3-Benzo-thiazin-4-one, 2-phenyl- (Preparation of)

RI 7414-07-97 CAPULS

EN 48-1,3-Benzo-thiazin-4-one, 2-phenyl- (CA INDEX NAME)



14 ANWISER 41 OF 65 CAPULS COPYRIGHT 2009 ACS on STM (Continued)

ACCESSION NUMBER: 1957:19143 CAPULS

DOCUMENT NUMBER: 5117927p-h

ORIGINAL REFERENCE NO.: 5117927p-h

TITLE: 2-Aryl-4-oxo-5,6-benzo-1,3-thiazines

AUTHOR(S): Conti, L.; Leandri, G.

CORPORATE SOURCE: Univ. Bologna, Italy

SOURCE: Bollettino Scientifico della Facolta di Chimica Industriale di Bologna (1957) 17, 37-9

COINDE: RSC(AN); ISSN: 0368-2025

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB A new synthesis is described for the preparation of 2-aryl-4-oxo-5,6-benzo-1,3-thiazines, obtained by condensation of thionallyc acid with aromatic diamines in presence of aqueous HCl. Homocyclic derivs. are described with regard to their possible therapeutic activity. Comps. prepared are:

(a) Ph, benzene, m. 125° (from EtOH); p-OMeC₆H₄, yellow prism, m. 238° (from EtOH-dioxane) [methyl yellow prism, m. 258° (from EtOH-dioxane)]; m-OMeC₆H₄, yellow prism, m. 212° (from EtOH-dioxane); m-OMeC₆H₄, m. 136° (from EtOH); p-MeC₆H₄, m. 164° (from EtOH); m-ClC₆H₄, m. 178° (from EtOH); p-ClC₆H₄, prism, m. 164° (from EtOH); p-OMeC₆H₄, m. 234° (from EtOH); PhCH₂, yellow needles, m. 155° (from dioxane); 2-pyridyl, m. 177° (from EtOH); 2-pyridyl, m. 158° (from EtOH); 6-pyridyl, m. 170° (from EtOH).

IT 7474-08-09, 48-1,3-Benzo-thiazin-4-one, 2-phenyl- (Preparation of)

RI 7474-08-09 CAPULS

EN 48-1,3-Benzo-thiazin-4-one, 2-phenyl- (CA INDEX NAME)



14 ANWISER 41 OF 65 CAPULS COPYRIGHT 2009 ACS on STM (Continued)

ACCESSION NUMBER: 1957:19143 CAPULS

DOCUMENT NUMBER: 5117927p-h

ORIGINAL REFERENCE NO.: 5117927p-h

TITLE: 2-Aryl-4-oxo-5,6-benzo-1,3-thiazines

AUTHOR(S): Conti, L.; Leandri, G.

CORPORATE SOURCE: Univ. Bologna, Italy

SOURCE: Bollettino Scientifico della Facolta di Chimica Industriale di Bologna (1957) 17, 37-9

COINDE: RSC(AN); ISSN: 0368-2025

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB A new synthesis is described for the preparation of 2-aryl-4-oxo-5,6-benzo-1,3-thiazines, obtained by condensation of thionallyc acid with aromatic diamines in presence of aqueous HCl. Homocyclic derivs. are described with regard to their possible therapeutic activity. Comps. prepared are:

(a) Ph, benzene, m. 125° (from EtOH); p-OMeC₆H₄, yellow prism, m. 238° (from EtOH-dioxane) [methyl yellow prism, m. 258° (from EtOH-dioxane)]; m-OMeC₆H₄, yellow prism, m. 212° (from EtOH-dioxane); m-OMeC₆H₄, m. 136° (from EtOH); p-MeC₆H₄, m. 164° (from EtOH); m-ClC₆H₄, m. 178° (from EtOH); p-ClC₆H₄, prism, m. 164° (from EtOH); p-OMeC₆H₄, m. 234° (from EtOH); PhCH₂, yellow needles, m. 155° (from dioxane); 2-pyridyl, m. 177° (from EtOH); 2-pyridyl, m. 158° (from EtOH); 6-pyridyl, m. 170° (from EtOH).

IT 7474-08-09, 48-1,3-Benzo-thiazin-4-one, 2-phenyl- (Preparation of)

RI 7474-08-09 CAPULS

EN 48-1,3-Benzo-thiazin-4-one, 2-phenyl- (CA INDEX NAME)



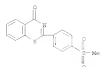
RI 7474-08-09 CAPULS

EN 48-1,3-Benzo-thiazin-4-one, 2-phenyl- (CA INDEX NAME)

L4 ANSWER 43 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 1061961-67-9 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-[p-(methanesulfonyl)phenyl]- (6CI) (CA INDEX NAME)



RN 106174-04-8 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-[4-(nitrophenyl)]- (CA INDEX NAME)



RN 106174-94-6 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-[m-nitrophenyl]- (6CI) (CA INDEX NAME)



RN 106782-45-0 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-[p-chlorophenyl]- (6CI) (CA INDEX NAME)

L4 ANSWER 44 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1957199142 CAPLUS
 DOCUMENT NUMBER: 51199142
 ORIGINAL REFERENCE NO.: 51119218-g
 TITLE: Preparation and structure of some chloro derivatives of the phenothiazine series. II. On the structure of dichlorophenothiazine and some derivatives
 AUTHOR(S): Antonov, D. Simev
 SOURCE: Doklady Bolgarskoi Akademii Nauk (1964), 9(No. 4), 57-60
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB SE C.A. 49, 5442c. 2,7-dichlorophenothiazine dioxide (I) (2.2 g.) dissolved in 50 ml. H₂O containing 3 ml. HCl, 60 ml. concentrated HCl (17%), added, and 7 ml. 10% solution NaHCO₃ dropwise added, the solution heated to 50°, cuprous chloride catalyst (from 2.5 g. copper sulfate) added in one batch gave 1.06 g. 2,7-dichlorophenothiazine dioxide (II), m. 301-2°. It is identical with dichlorophenothiazine dioxide obtained from dichlorophenothiazine oxide. The position of the two chlorine atoms is thereby established.
 IT 7474-08-0P, 48-1,3-benzothiazin-4-one, 2-phenyl-
 RI: PREP (Preparation)
 preparation of)
 RN 7474-08-0 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)



L4 ANSWER 43 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 106782-86-9 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-[m-chlorophenyl]- (6CI) (CA INDEX NAME)



RN 107915-37-7 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-[p-tolyl]- (6CI) (CA INDEX NAME)



RN 107917-93-1 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-[m-tolyl]- (6CI) (CA INDEX NAME)



L4 ANSWER 45 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 195514282 CAPLUS
 DOCUMENT NUMBER: 49164385
 ORIGINAL REFERENCE NO.: 4915907a-c
 TITLE: One compounds of the benzothiazine series
 AUTHOR(S): Bohner, Rost; Schmidt, Wilhelm
 CONTRIBUTOR SOURCE: Univ. Marburg/Lahn, Germany
 SOURCE: Arch. Pharm. (1957), 286, 437-41
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER NUMBER: CHEMABZ 49-84202
 AB of C.A. 49, 8289a. 8-Acetylthioallylamine (I) was prepared in low yield by treating M thioallylamine with AcCl in CH₂Cl₂ (cf. Neisert and Nanna, C.A. 22, 4114) and in good yield from thioallylamine (II) and AcCl in C₆H₅SO₂ 5-propionylthioallylamine (III) was prepared in analogous manner.
 Boils. of 8-acylthioallylamine saturated with HCl, on addition of xylene or toluene, distillation, and working up the residue yield the corresponding benzothiazine derivative. 4-Oxo-2-phenyl-3,4-benzo-1,2,3-thiazine (IV), yellowish crystals, m. 122-3° (from absolute EtOH or MeOH), was prepared in 58% yield by passing HCl for several min. through 2.0 g. 8-benzoylthioallylamine in 20 ml. xylene at 140°, raising the temperature slowly, and distilling slowly (40-75 min.) while passing a little HCl through the solution, removing traces of solvent from the oily residue in vacuo, dissolving it in 20 ml. CH₂Cl₂, removing unreacted acid with N NaOH, washing with H₂O, drying over CaCl₂, and removing CH₂Cl₂. IV.HCl is not stable; 3. colorless prisms; m. 148° (from EtOH), was prepared in 88% yield by adding 5.1 g. AcCl drop by drop to 10.0 g. II in 25 ml. anhydrous CH₂Cl₂ while stirring, letting stand 30 min. at -15°, adding 80 ml. Et₂O, triturating with 50 ml. dilute NaOH at 0°, filtering, washing with H₂O, and drying. N-8-benzoylthioallylamine, colorless needles, m. 76-5°, was prepared by refluxing I with excess Ac₂O 5-6 hrs. 4-Oxo-2-methyl-5,6-benzo-1,2,3-thiazine-HCl, m. about 160° (decomposition), was prepared in 74% yield from I like IV; free base m. about 180° (decomposition, melting 180°) (from CH₂Cl₂). III, colorless needles, m. 107-8°, was prepared like I in 84% yield. 4-Oxo-2-ethyl-5,6-benzo-1,2,3-thiazine-HCl, m.p. not given, was prepared in 61% yield like IV; free base, yellow powder, m. 86-60°.
 IT 7474-08-0P, 48-1,3-benzothiazin-4-one, 2-phenyl-
 810466-04-1P, 48-1,3-benzothiazin-4-one, 2-methyl-, hydrochloride
 810467-00-0P, 48-1,3-benzothiazin-4-one, 2-methyl-, hydrochloride
 810467-02-0P, 48-1,3-benzothiazin-4-one, 2-methyl-, hydrochloride
 810467-04-2P, 48-1,3-benzothiazin-4-one, 2-methyl-, hydrochloride
 RI: PREP (Preparation)
 preparation of)
 RN 7474-08-0 CAPLUS
 CN 48-1,3-benzothiazin-4-one, 2-phenyl- (CA INDEX NAME)

L4 ABSTRACT 45 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



FIG 854066-00-1 CAPLUS
CH 48-1, 3-Benzothiazin-4-one, 2-methyl-, hydrochloride (5C1) (CA INDEX NAME)



● 5C1

FIG 854067-00-2 CAPLUS
CH 48-1, 3-Benzothiazin-4-one, 2-methyl- (CA INDEX NAME)



FIG 854067-00-0 CAPLUS
CH 48-2, 3-Benzothiazin-4-one, 2-ethyl-, hydrochloride (5C3) (CA INDEX NAME)



● 5C1

L4 ABSTRACT 45 OF 45 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
FIG 854067-04-2 CAPLUS
CH 48-1, 3-Benzothiazin-4-one, 2-ethyl- (CA INDEX NAME)

